AD-A151 578   EQUIPMENT OF THE WARSAW PACT(U) INFANTRY DIV   1/1
(MECHANIZED) (1ST) FORT RILEY KS AUG 83
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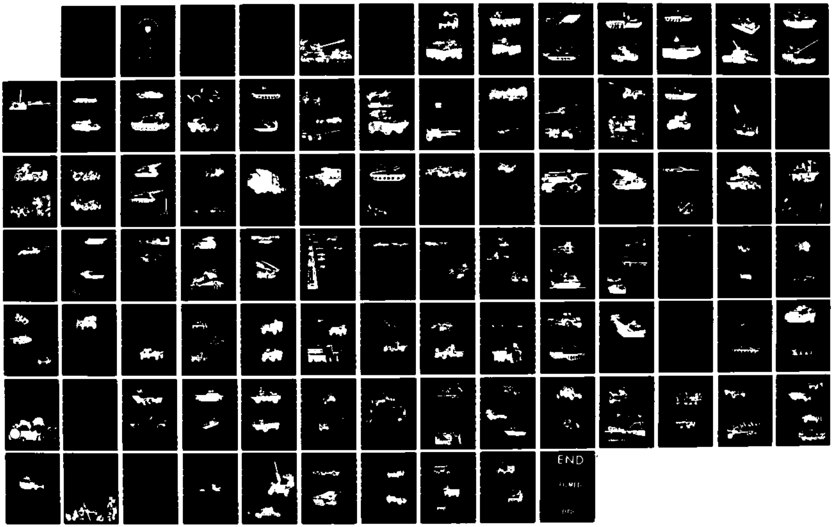

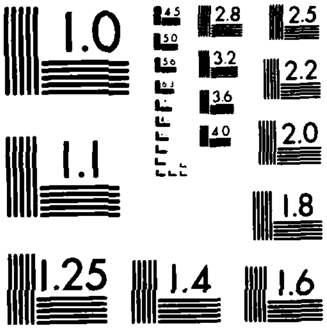
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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1st INFANTRY DIVISION (MECH) OPFOR DETACHMENT
1
AC of S, G2/DSEC

EQUIPMENT
OF THE
WARSAW PACT

AUGUST 1983

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ARMY-FT RILEY, KANS H-1274

BEGINNING IN THE LATE 60's AND CONTINUING TO THIS DATE, THE SOVIETS CONDUCTED A DRAMATIC INCREASE IN THE MECHANIZATION OF THEIR GROUND COMBAT FORCES. WITH THE INTRODUCTION OF A WIDE VARIETY OF NEW SELF-PROPELLED WEAPONS SYSTEMS, THEY MANAGED TO SIGNIFICANTLY INCREASE THE TACTICAL MOBILITY, FIREPOWER, AND SURVIVABILITY OF THOSE FORCES IN BOTH THE NUCLEAR AND CHEMICALLY CONTAMINATED BATTLEFIELD. THIS BOOKLET IS DESIGNED TO PROVIDE THE READER WITH AN APPRECIATION OF THE CAPABILITIES OF THE EQUIPMENT EMPLOYED BY THREE OF THE MAJOR MEMBERS OF THE WARSAW PACT.

THIS BOOKLET WAS PREPARED BY THE OPFOR DETACHMENT, ACofS, G2/DSEC, 1st INFANTRY DIVISION (MECH). IT IS AN UNCLASSIFIED DOCUMENT BASED ON INFORMATION DERIVED FROM OPEN SOURCES. USERS ARE ENCOURAGED TO SEND THEIR COMMENTS TO COMMANDER, 1st INFANTRY DIVISION (MECH), ATTN: AFZN-DS-CS, FT. RILEY, KS 66442.

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THE EQUIPMENT IN THE GROUP OF SOVIET FORCES GERMANY

EQUIPMENT OF THE GROUP OF SOVIET FORCES, GERMANY

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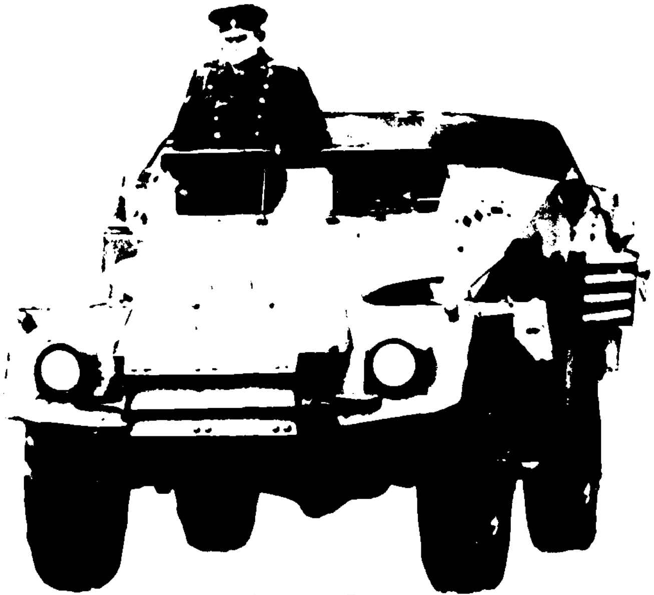
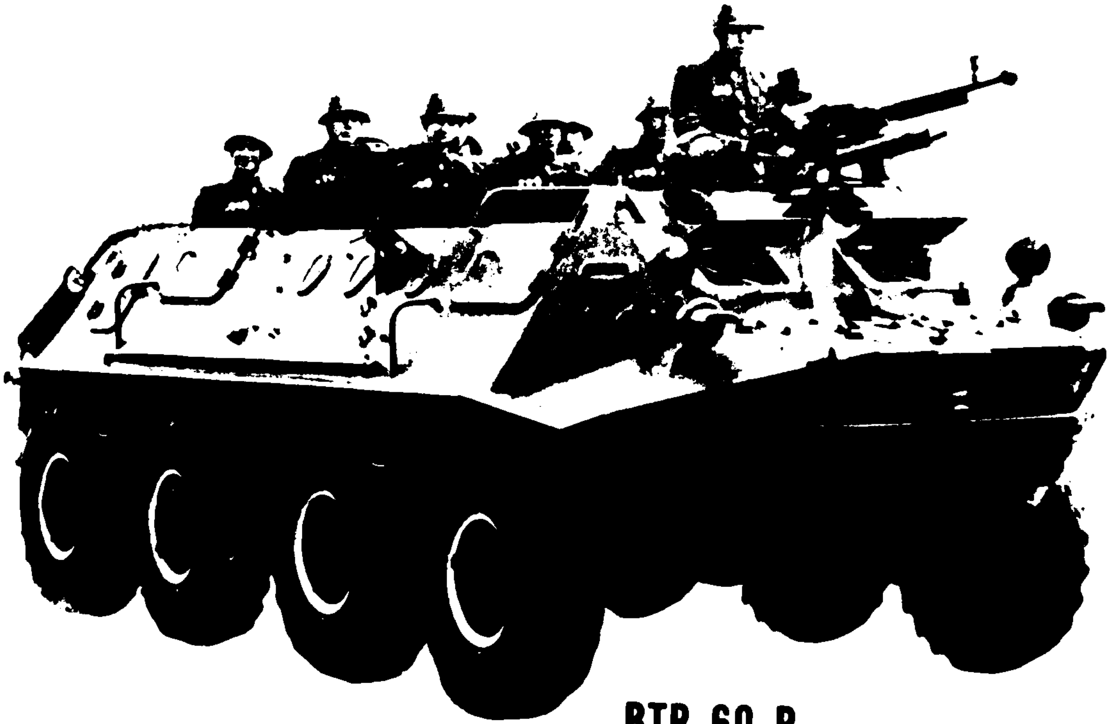
1 - ARMORED PERSONNEL CARRIERS



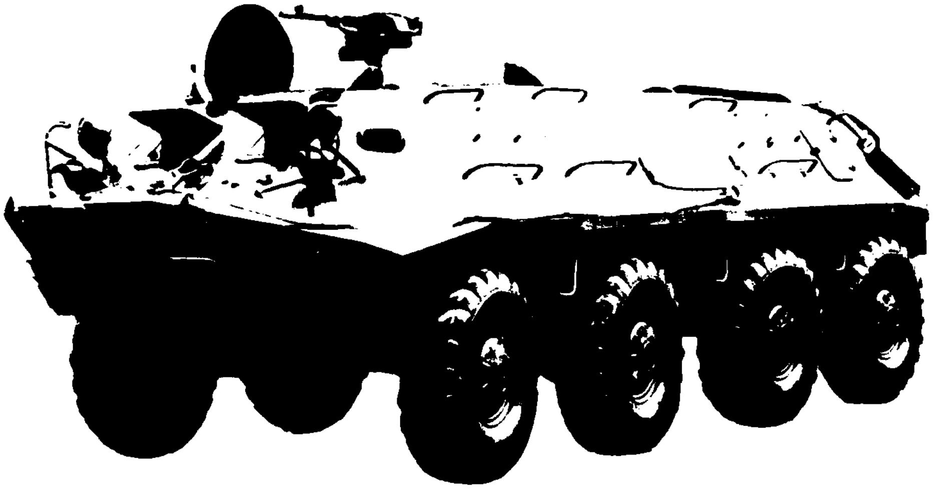
BTR 40

ENTERED SERVICE IN 1951
CREW OF 2 + 8 PASSENGERS
PRIMARILY EMPLOYED TO CONDUCT
ROUTE RECONNAISSANCE



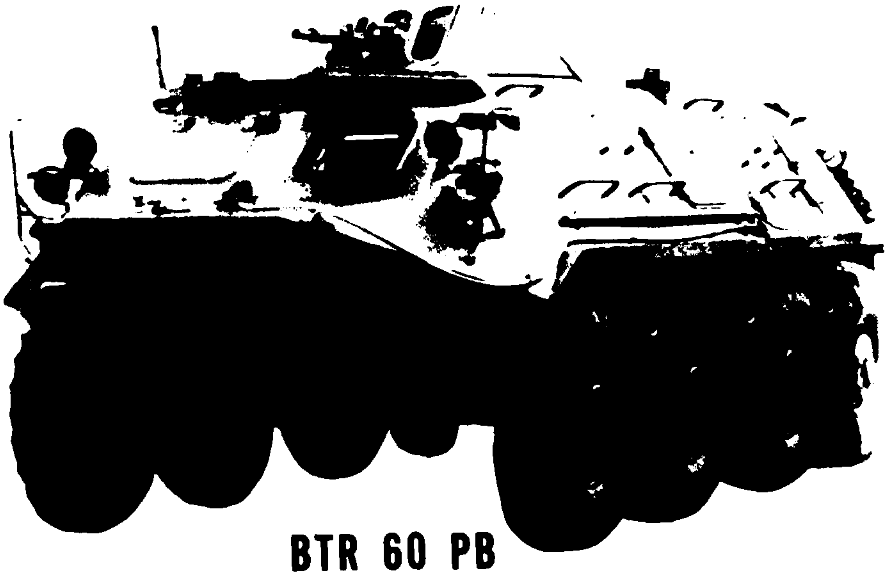
BTR 60 P

ENTERED SERVICE IN 1962 - AMPHIBIOUS
CREW OF 2 + 15 PASSENGERS
80km/hr - ROAD SPEED; 10km/hr - WATER SPEED
ONE 12.7mm MG



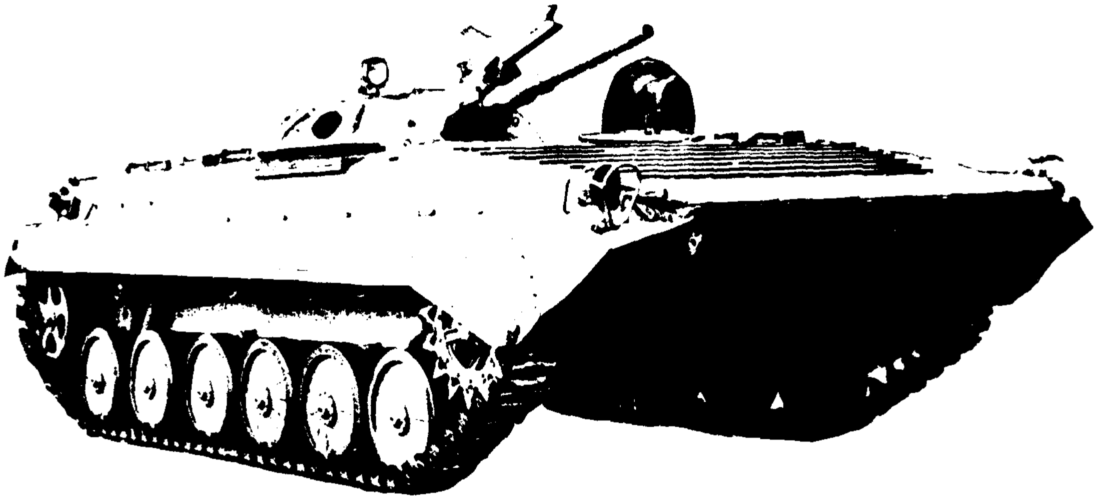
BTR 60 PA

ENTERED SERVICE IN 1964 - AMPHIBIOUS
COVERED VERSION OF BTR 60 P
CREW OF 2 + 9 PASSENGERS
ONE 7.62mm MG



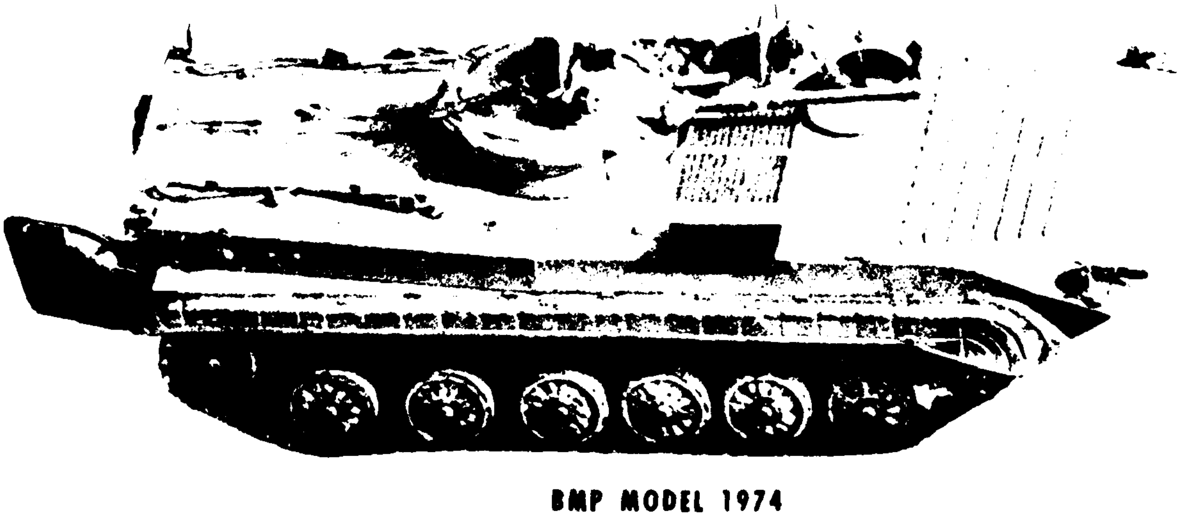
BTR 60 PB

ENTERED SERVICE IN 1966 - AMPHIBIOUS
TURRETED VERSION OF BTR 60 PA
PRESSURIZED WITH AIR FILTRATION SYSTEM
ONE 14.5mm MG
ONE 7.62mm MG
REPLACED THE BTR 152 IN THE MOTORIZED RIFLE REGIMENT



BMP 1967

ENTERED SERVICE IN 1967 - AMPHIBIOUS
CREW OF 3 + 8 PASSENGERS
60km/hr - ROAD SPEED; 6km/hr - WATER SPEED
ARMAMENT: ONE 73mm CANNON
ONE COAXIAL 7.62mm MG
ONE SAGGER AT MISSLE
REPLACEMENT FOR THE BTR 50 AND BTR 152
EMPLOYED BY AT LEAST ONE REGIMENT OF THE MOTORIZED RIFLE DIVISION AND IN THE MOTORIZED RIFLE REGIMENT OF THE TANK DIVISION
HAS REPLACED THE PT-76 IN REGIMENTAL AND DIVISIONAL RECONNAISSANCE ELEMENTS

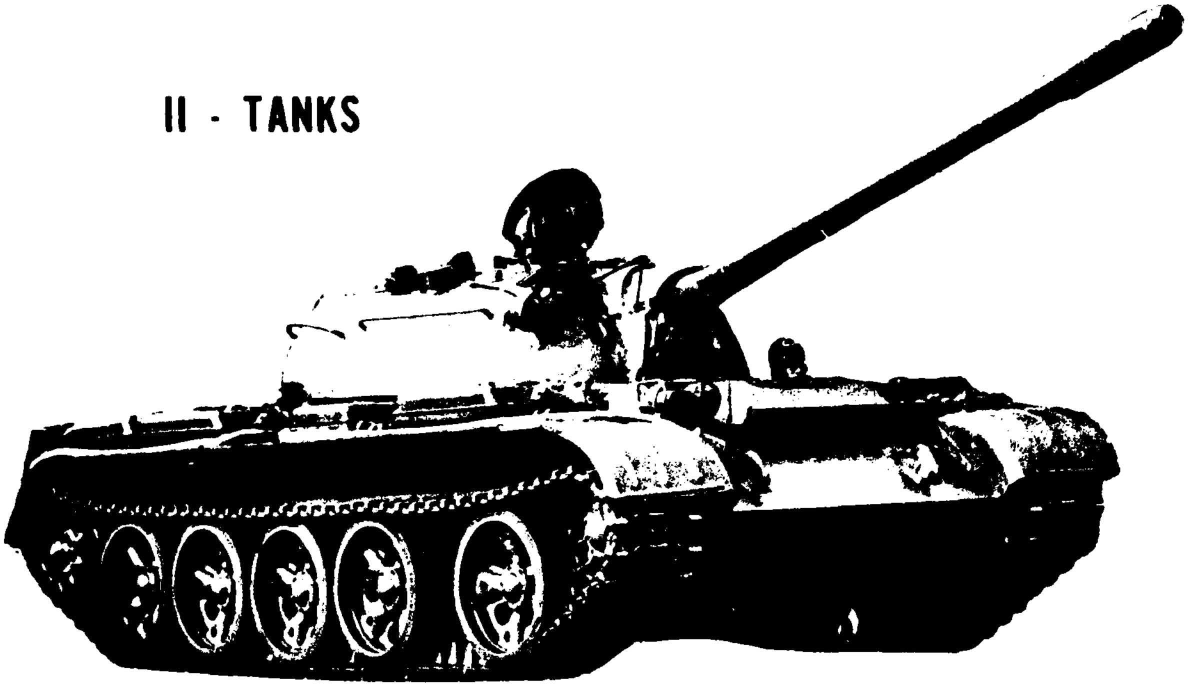


BMP MODEL 1974

2 periscopes and 4 firing ports on the right side

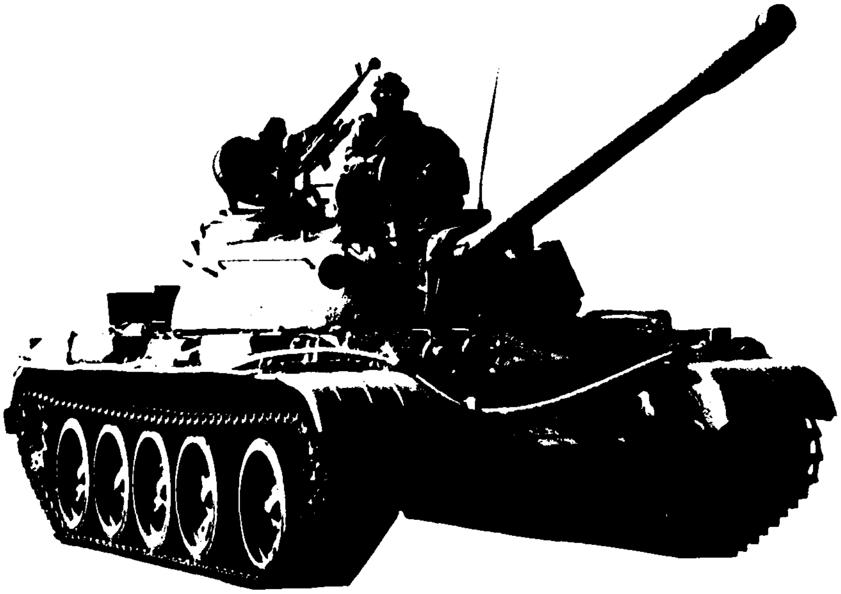
NOTE: THE BTR-152 AND THE BTR-50 ARE DISAPPEARING FROM THE G.S.F.G. THIS ALSO INCLUDES THE VEHICLES ON PAGE 59.

II - TANKS



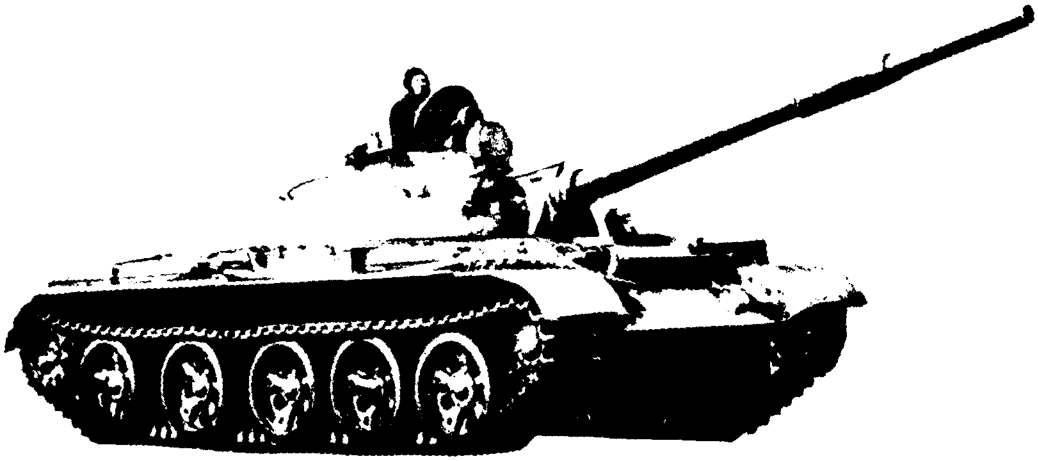
T 55

ENTERED SERVICE IN 1961
WEIGHT 36 TONS
ARMAMENT: ONE 100mm GUN
ONE 7.62mm COAXIAL MG
ASSIGNED TO: the TANK BATTALION OF THE MRR (40)
the TANK BATTALION OF THE TR (31)
the TANK REGIMENT OF THE TD AND MRD (95)
the INDEPENDENT TANK BATTALION OF THE MRD (51)



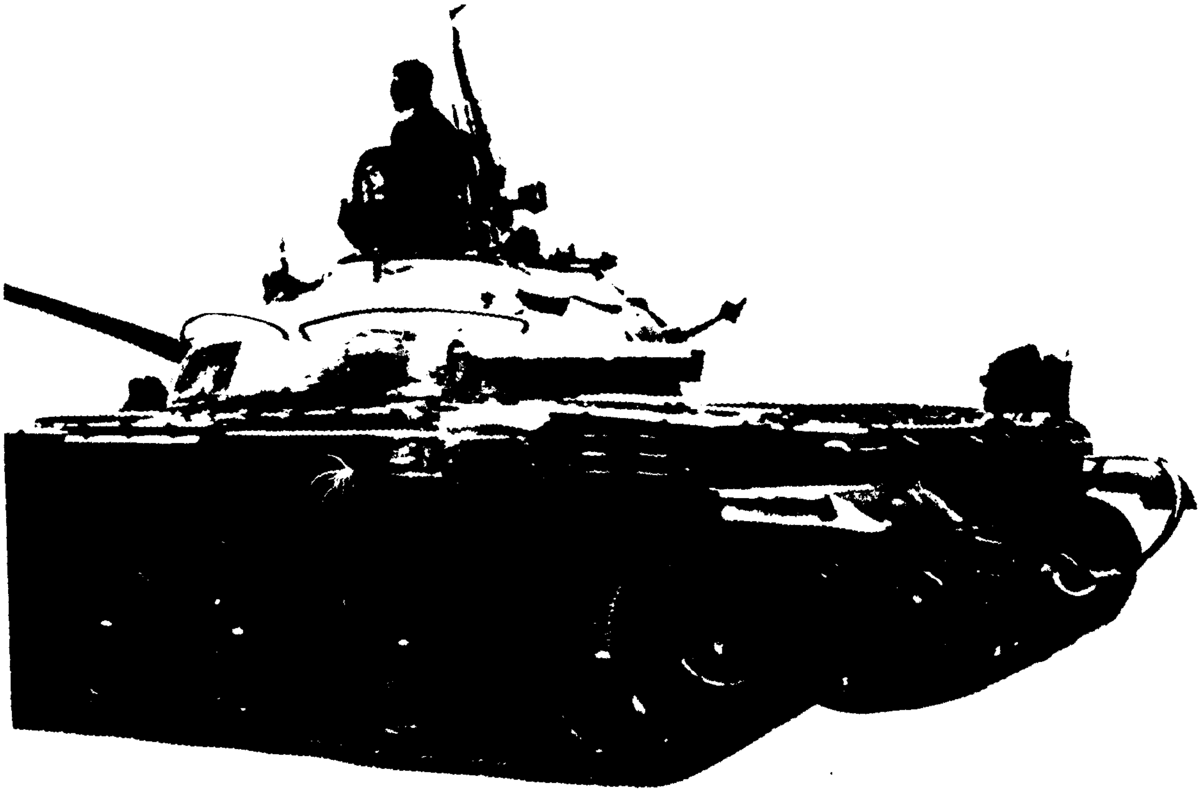
T 55 A

SAME CHARACTERISTICS AS THE T 55 WITH
A 12.7mm AA MG



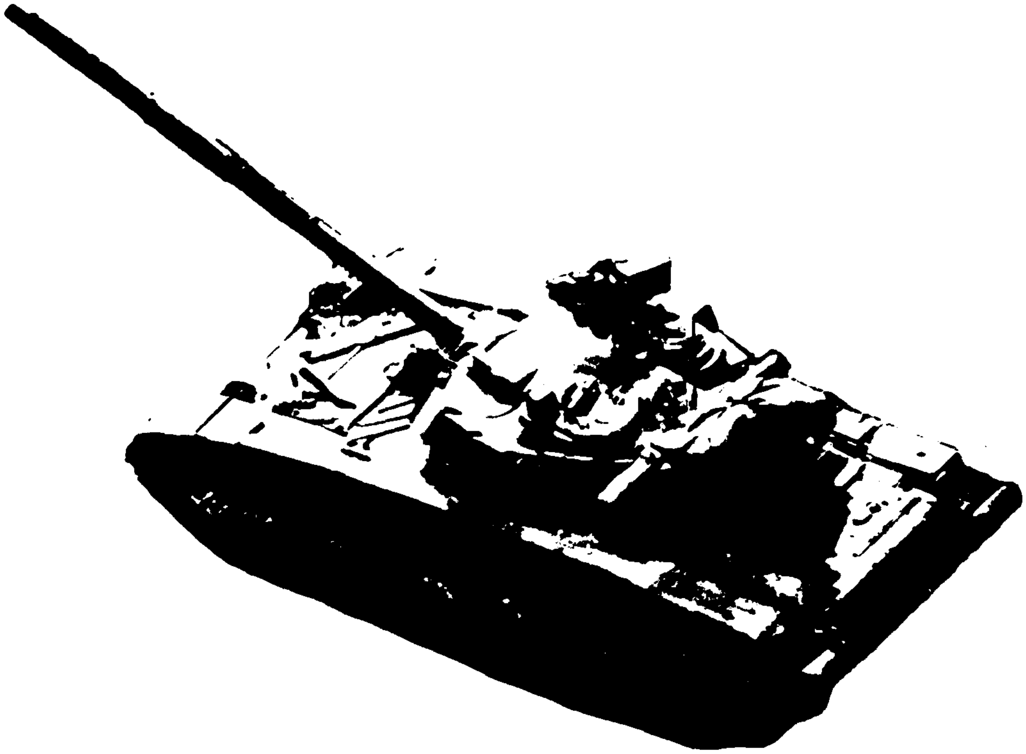
T 62

ENTERED SERVICE IN 1962
WEIGHT 38.5 TONS
ARMAMENT: ONE 115mm GUN
ONE 7.62mm COAXIAL MG
ASSIGNED TO: the TANK BATTALION OF THE MRR (40)
the TANK BATTALION OF THE TR (31)
the TANK REGIMENT OF THE TD AND MRD (95)



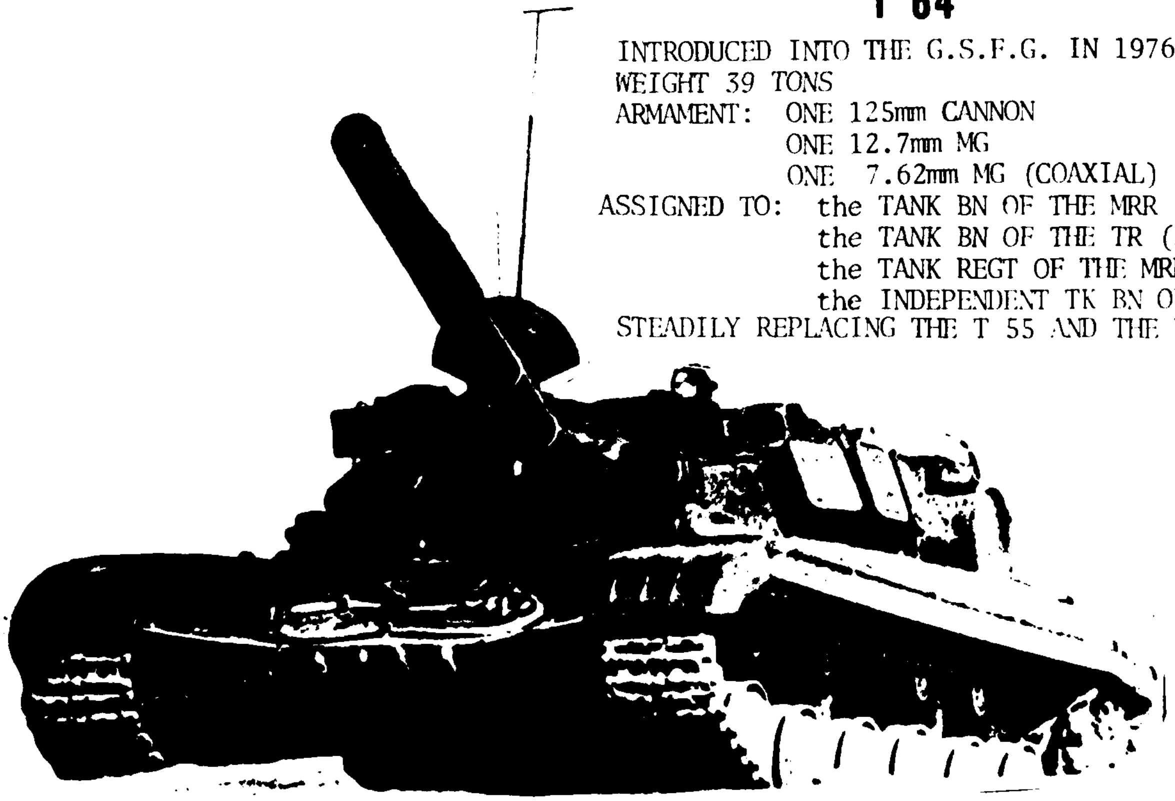
T 62 A

SAME CHARACTERISTICS AS THE T 62 WITH
A 12.7mm AA MG



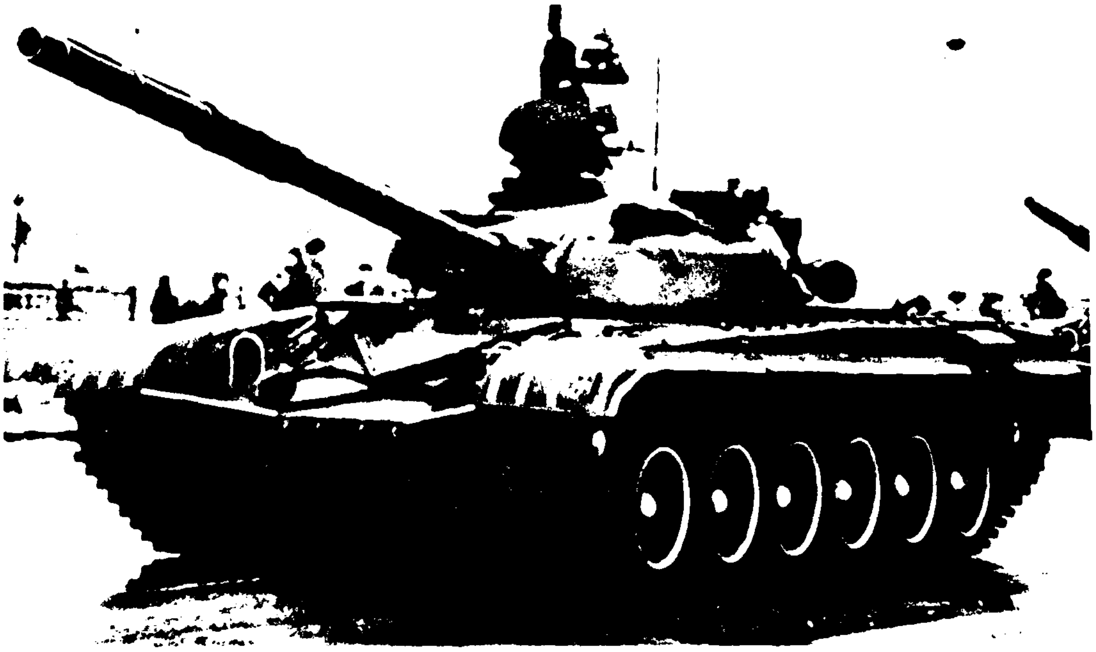
T 64

INTRODUCED INTO THE G.S.F.G. IN 1976
WEIGHT 39 TONS
ARMAMENT: ONE 125mm CANNON
ONE 12.7mm MG
ONE 7.62mm MG (COAXIAL)
ASSIGNED TO: the TANK BN OF THE MRR (40)
the TANK BN OF THE TR (31)
the TANK REGT OF THE MRD AND TD (95)
the INDEPENDENT TK BN OF THE MRD (51)
STEADILY REPLACING THE T 55 AND THE T 62



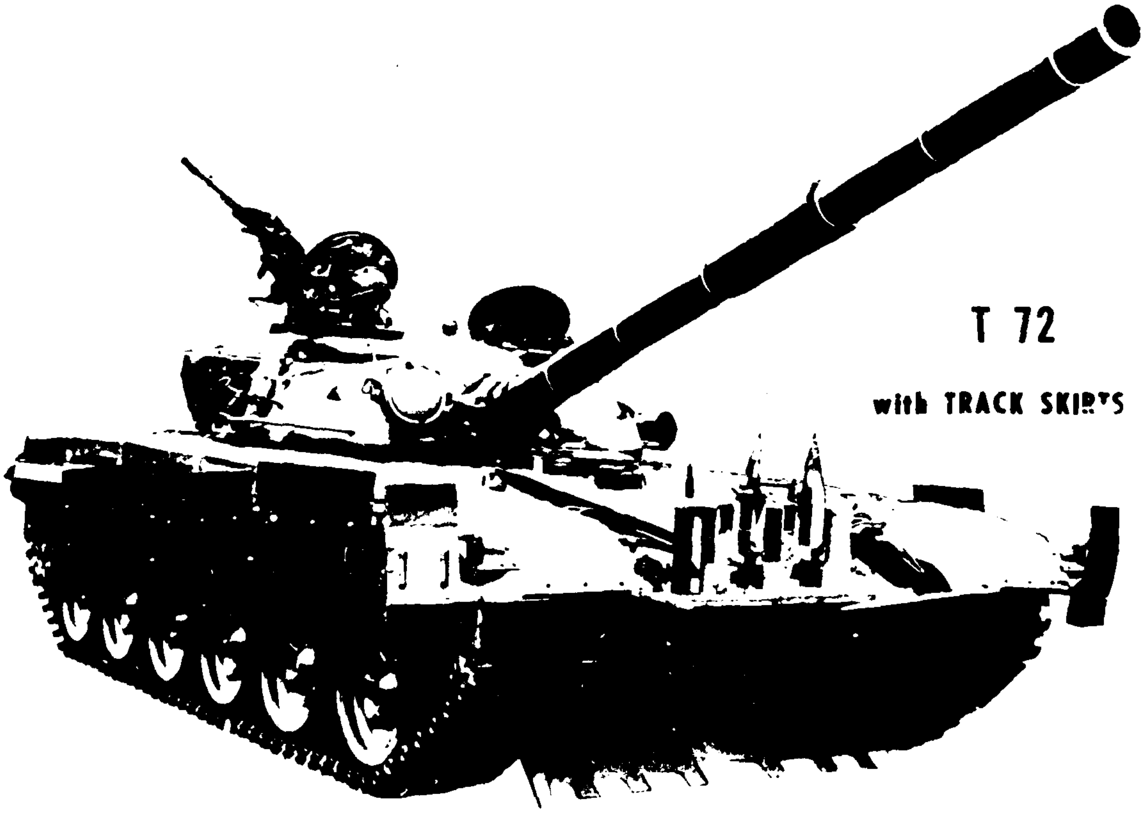
T 64 COMMAND

NOTE: THE T 64, WHICH HAS BEEN IN SERVICE IN THE G.S.F.G. SINCE 1976, HAS OFTEN BEEN CONFUSED WITH THE VERY SIMILIAR T 72 (SHOWN ON THE NEXT PAGE).



T 72

ENTERED SERVICE IN 1976
WEIGHT 41 TONS
ARMAMENT: ONE 125mm CANNON
ONE 12.7mm MG (ON COMMANDER'S HATCH)
ONE 7.62mm COAXIAL MG



T 72

with TRACK SKIRTS

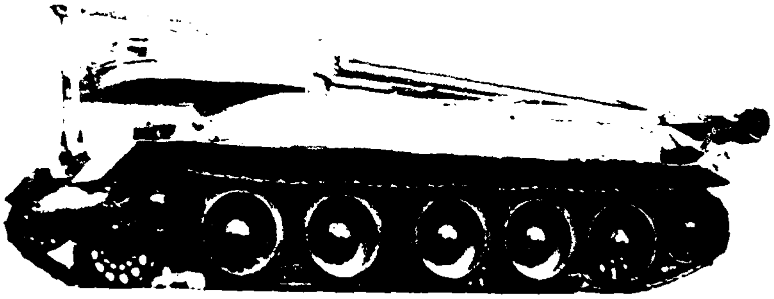
NOTE: THE T72, WHICH WAS FIRST PRESENTED IN MOSCOW ON 7 NOVEMBER 1977, HAS NOT BEEN OBSERVED IN THE G.S.F.G.. IT IS CURRENTLY ASSIGNED TO SEVERAL REGIMENTS IN THE USSR.

SNORKEL

T 55 FITTED WITH TRAINING SNORKEL

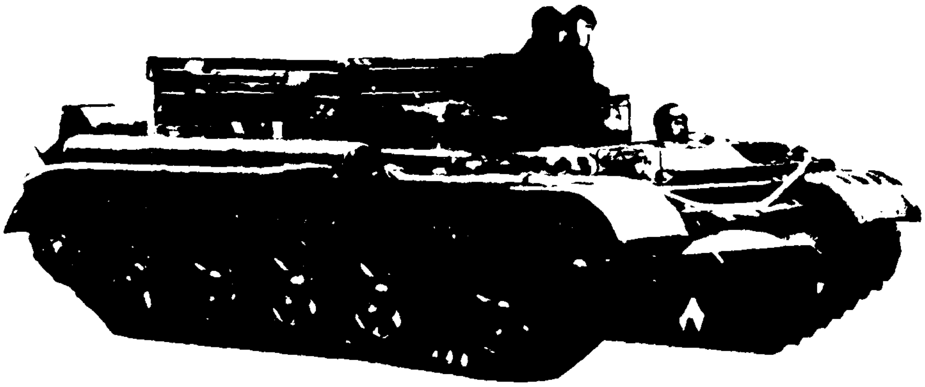
T 55 FITTED WITH COMBAT SNORKEL

RECOVERY VEHICLES



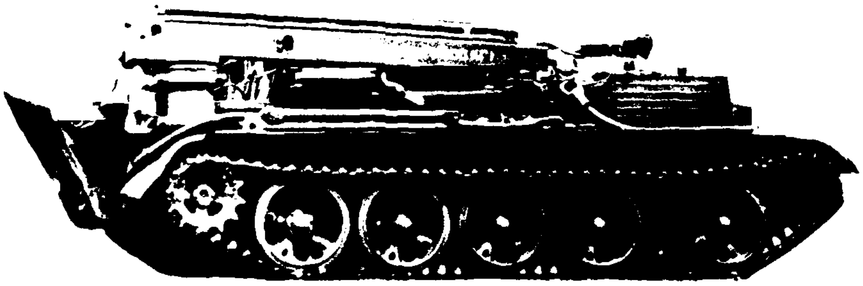
SKP 5

WEIGHT 25 TONS
MODIFIED T 34 CHASSIS
CRANE CAPACITY 5 TONS
CAN PULL UP TO 30 TONS



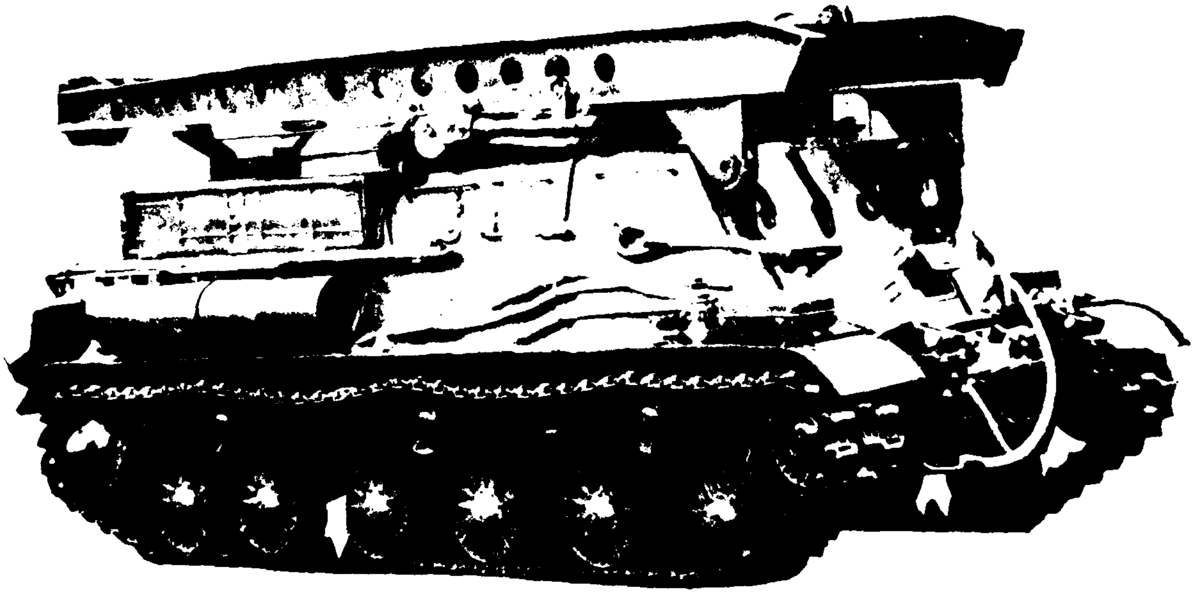
T 54 T1

WEIGHT 32 TONS
MODIFIED T 54 CHASSIS
WINCH CAPACITY 30 TONS
EQUIPPED WITH A SNORKEL AND CAN BE SUBMERGED



T 54 T2

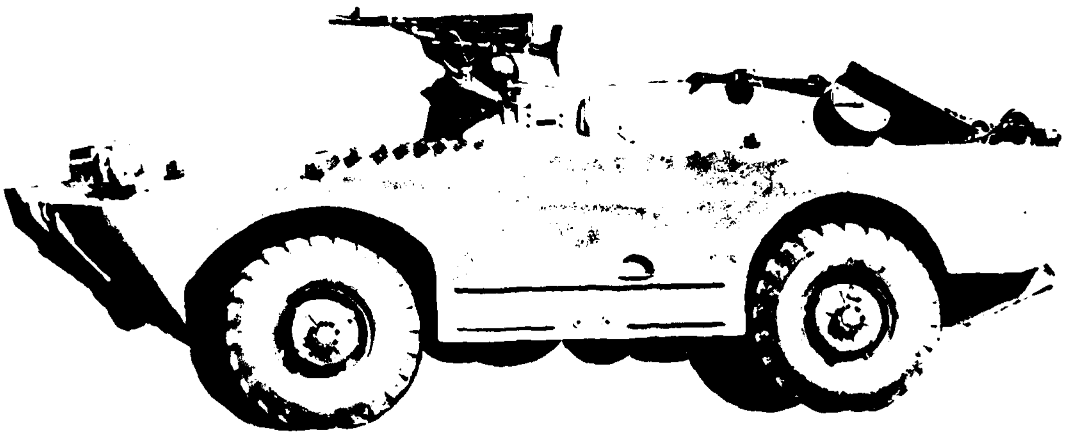
WEIGHT 32 TONS
MODIFIED T 34 CHASSIS
CRANE CAPACITY 1.5 TONS
WINCH CAPACITY 30 TONS
CAPABLE OF BEING SUBMERGED IN WATER



JSU T w CRANE

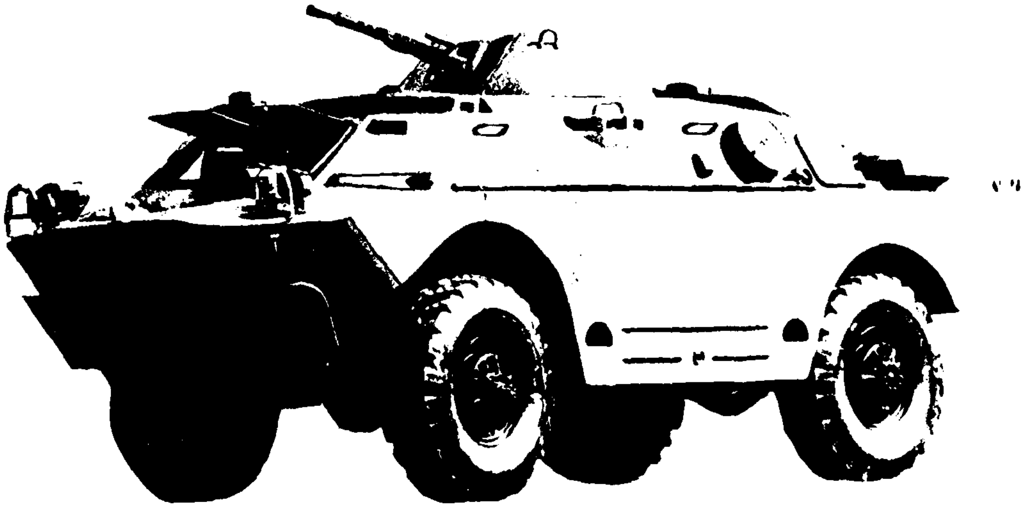
WEIGHT 45.5 TONS
MODIFIED JSU CHASSIS
CRANE CAPACITY 7 TONS
WINCH CAPACITY 30 TONS

III - RECONNAISSANCE VEHICLES



BRDM

ENTERED SERVICE IN 1959
ARMAMENT: ONE 7.62mm OR 12.7mm MG
ASSIGNED TO: RECONNAISSANCE COMPANIES OF TR AND MRR
RECONNAISSANCE BN OF TD AND MRD
ALSO EMPLOYED AS A COMMAND VEHICLE



BRDM 2

ENTERED SERVICE IN 1966
ARMAMENT: ONE 14.5mm MG
ONE 7.62mm MG

PT 76

ENTERED SERVICE IN 1954
WEIGHT 14 TONS
ARMAMENT: ONE 76mm CANNON
ONE 7.62mm MG
ASSIGNED TO: RECONNAISSANCE COMPANY OF TR AND MRR (3)
RECONNAISSANCE BATTALION OF TD AND MRD (10)
BEING REPLACED BY THE BMP

BMP RECONNAISSANCE

ENTERED SERVICE IN 1976
COMMAND VEHICLE OF BMP EQUIPPED UNITS
MAIN DIFFERENCES WITH BMP 67 IS IN TURRET AND ABSENCE OF SAGGER LAUNCH RAIL

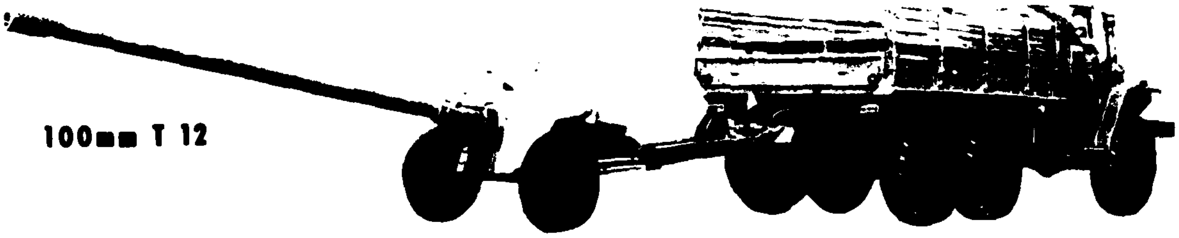
IV - ARTILLERY

A - ANTITANK WEAPONS

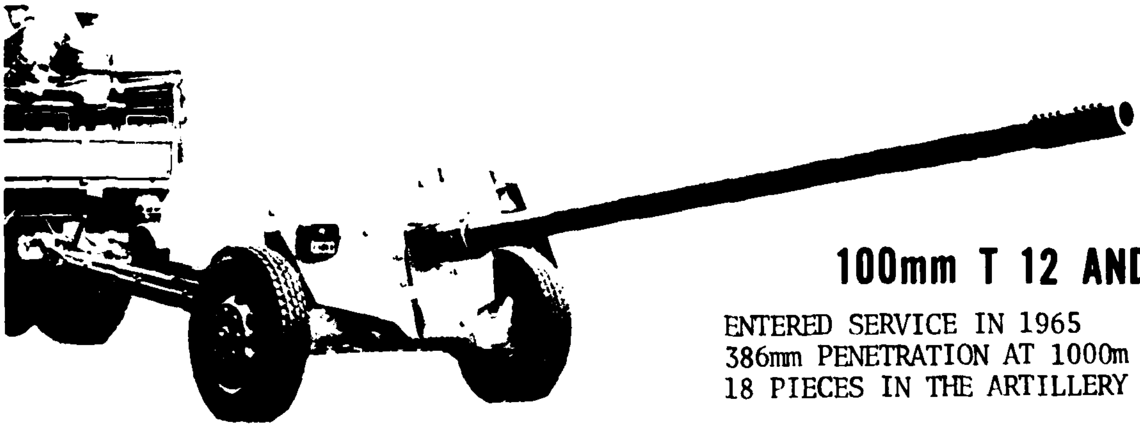
1 - ANTITANK GUNS

SPG 9

ENTERED SERVICE IN 1968
73mm RECOILLESS GUN
300mm PENETRATION AT 1000m
REPLACES THE 82mm B-10
FOUND IN BTR EQUIPPED MRR'S



100mm T 12

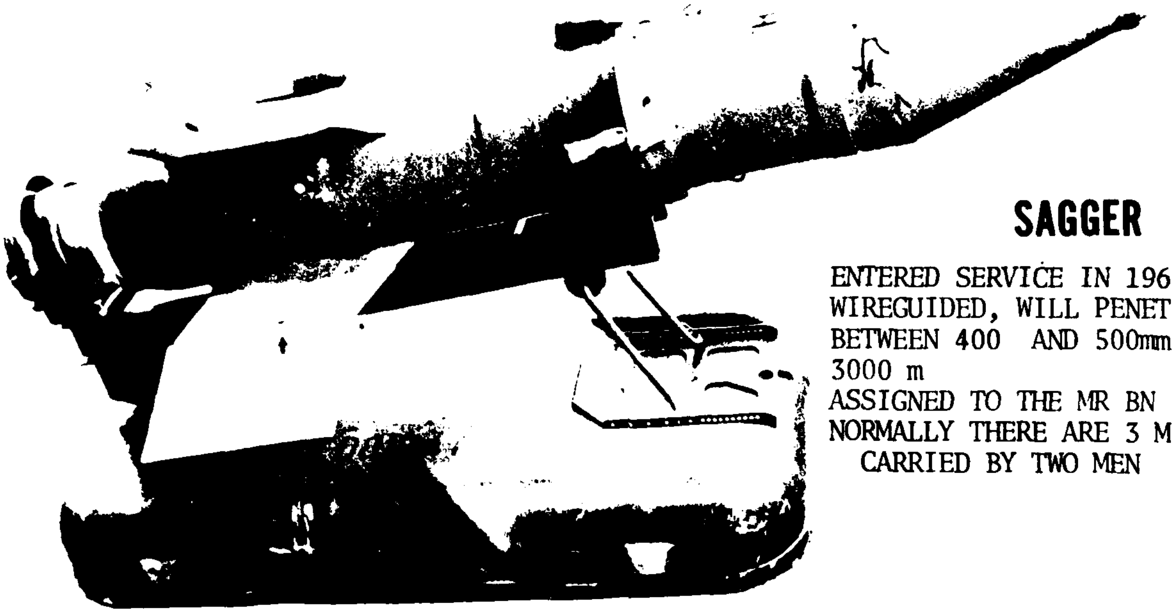


100mm T 12 A

100mm T 12 AND T 12 A

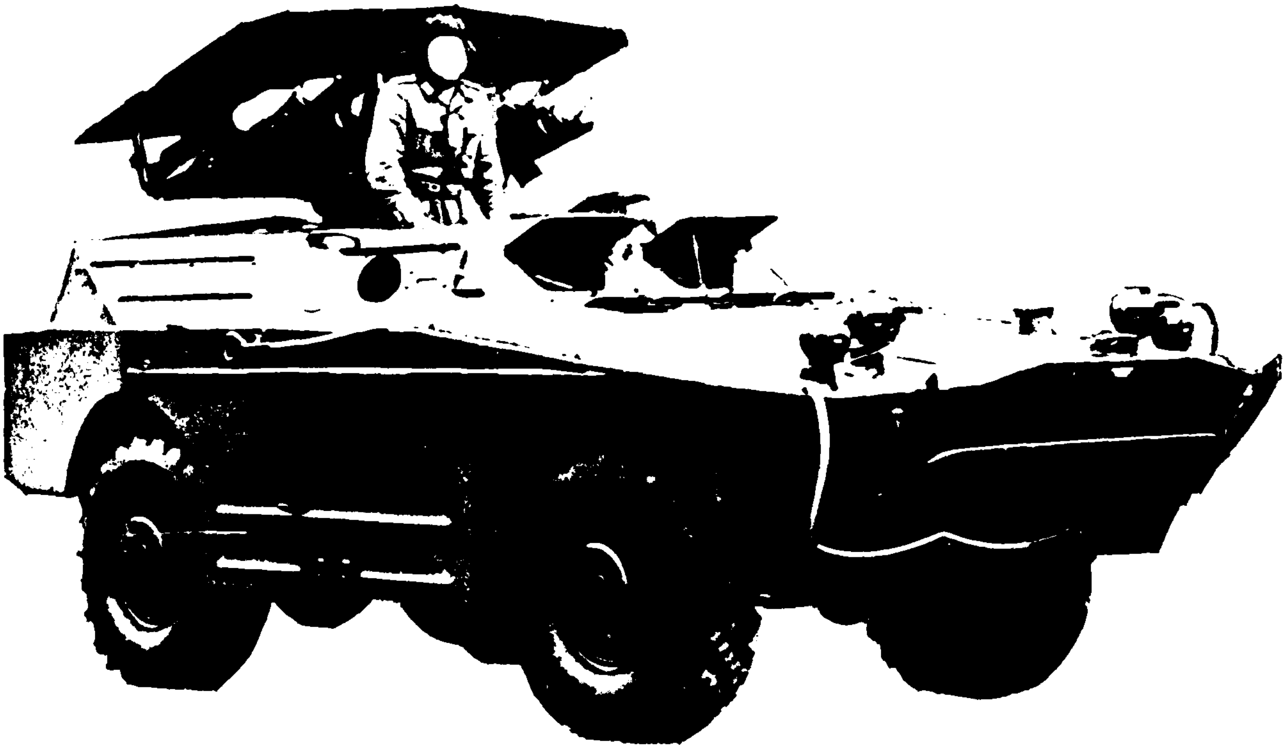
ENTERED SERVICE IN 1965
386mm PENETRATION AT 1000m
18 PIECES IN THE ARTILLERY REGT OF THE MRD

2 - ANTITANK MISSLES



SAGGER

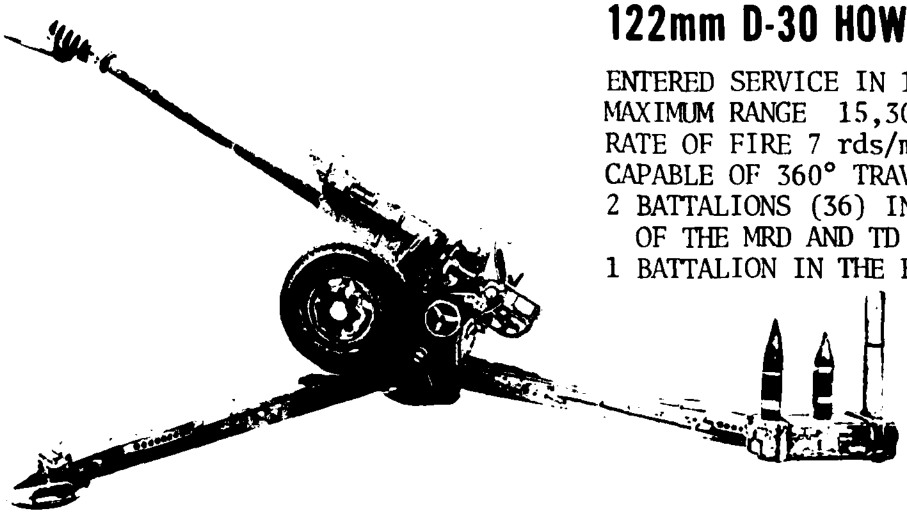
ENTERED SERVICE IN 1966
WIREGUIDED, WILL PENETRATE
BETWEEN 400 AND 500mm AT
3000 m
ASSIGNED TO THE MR BN
NORMALLY THERE ARE 3 MISSLES
CARRIED BY TWO MEN



BRDM SAGGER

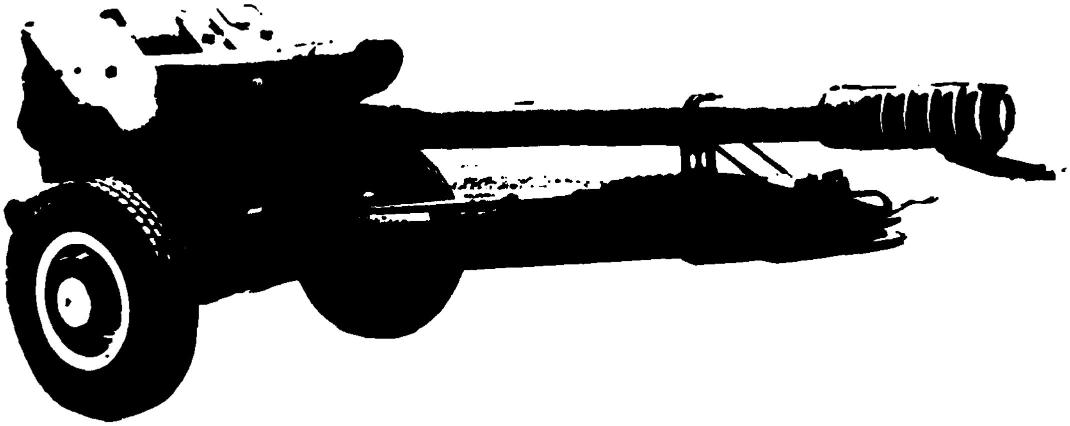
ENTERED SERVICE IN 1965
EQUIPPED WITH 6 SAGGER MISSLES
ASSIGNED TO THE AT BATTERY OF THE MRR (9)
SAME CHARACTERISTICS AS THE PORTABLE SAGGER

B - TOWED ARTILLERY



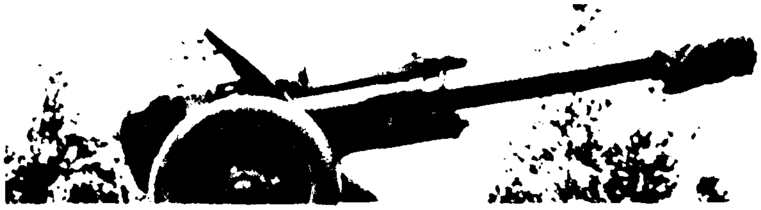
122mm D-30 HOWITZER

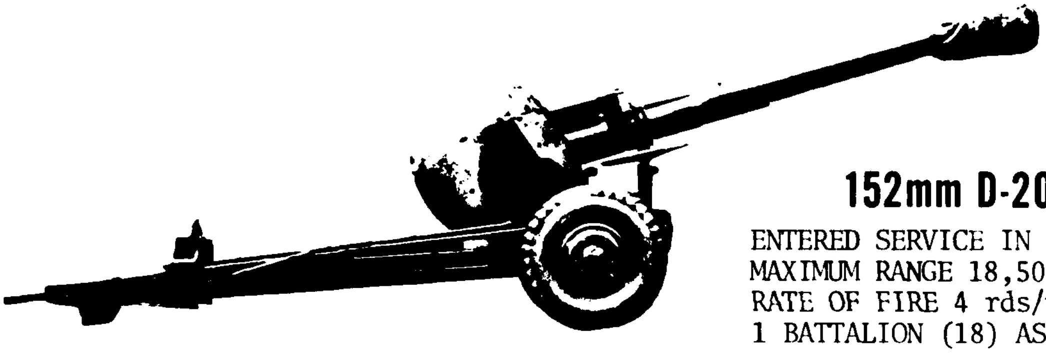
ENTERED SERVICE IN 1963
MAXIMUM RANGE 15,300m
RATE OF FIRE 7 rds/min
CAPABLE OF 360° TRAVERSE
2 BATTALIONS (36) IN THE ARTILLERY REGT
  OF THE MRD AND TD
1 BATTALION IN THE BTR EQUIPPED MRR



152mm D-1 GUN HOWITZER

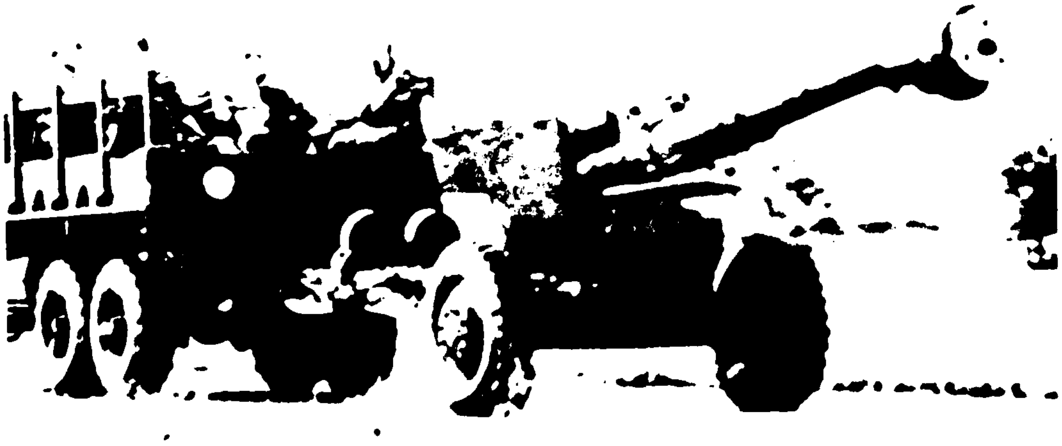
ENTERED SERVICE IN 1943
MAXIMUM RANGE 12,400m
RATE OF FIRE 4 rds/min
1 REGIMENT OF 4 BATTALIONS (72) ASSIGNED TO THE FRONT



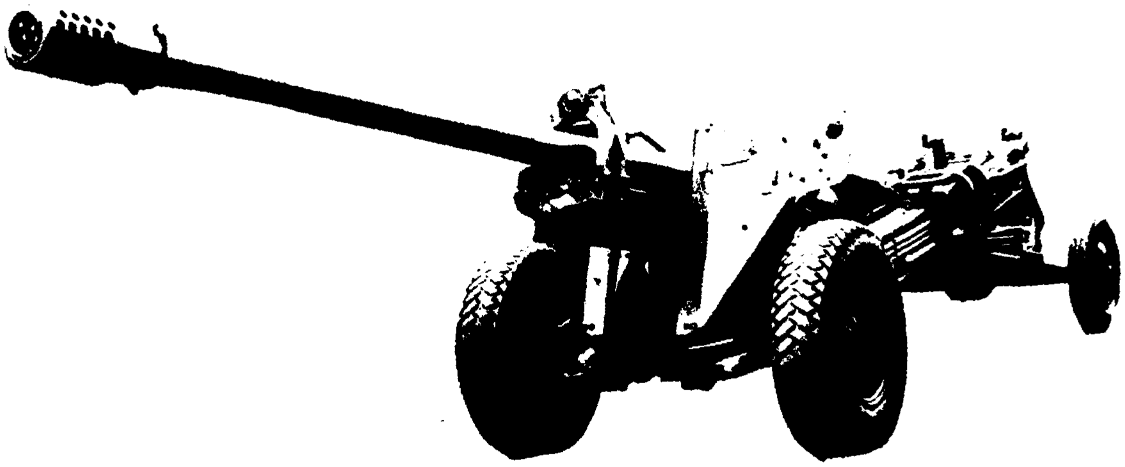


152mm D-20 GUN HOWITZER

ENTERED SERVICE IN 1955
MAXIMUM RANGE 18,500m
RATE OF FIRE 4 rds/min
1 BATTALION (18) ASSIGNED TO FRONT

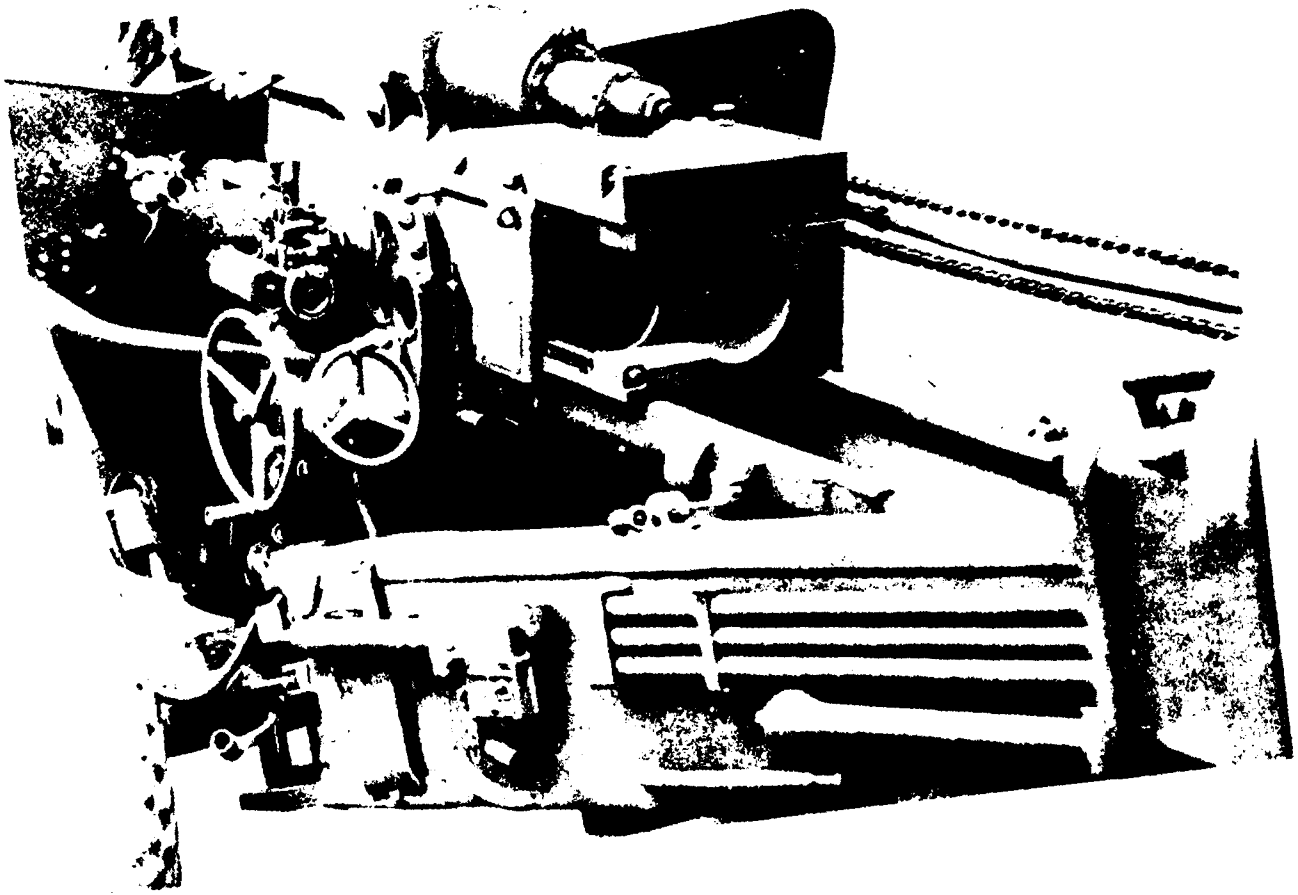


152mm D-20 WITH PRIME MOVER

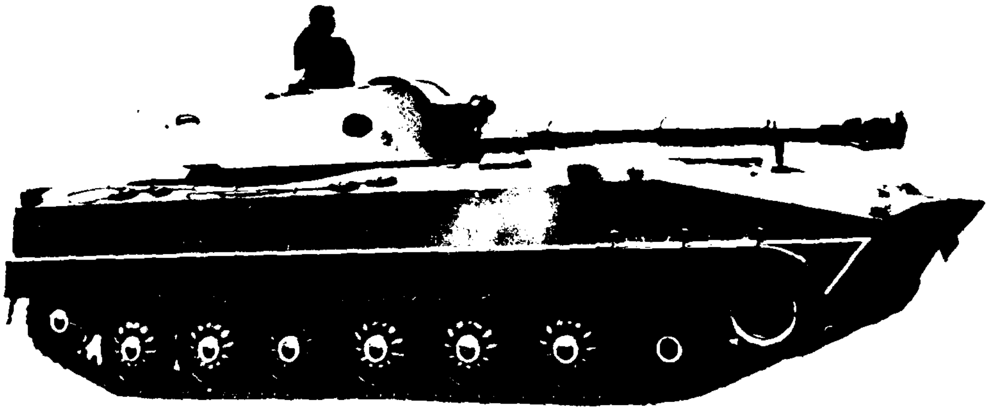


130mm GUN M-46

ENTERED SERVICE IN 1954
MAXIMUM RANGE 26,700m
RATE OF FIRE 5 rds/min
2 REGIMENTS OF 4 BATTALIONS (144) ASSIGNED
TO FRONT
2 BATTALIONS (36) ASSIGNED TO ARMY



2 - SELF PROPELLED ARTILLERY



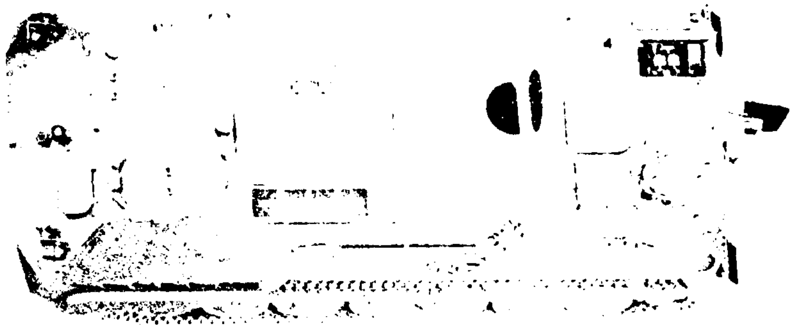
122mm SP

ENTERED SERVICE IN 1974
MAXIMUM RANGE 22000 WITH RAP ROUND (?)
AMPHIBIOUS
1 BATTALION (18) ASSIGNED TO BMP EQUIPPED MRR'S

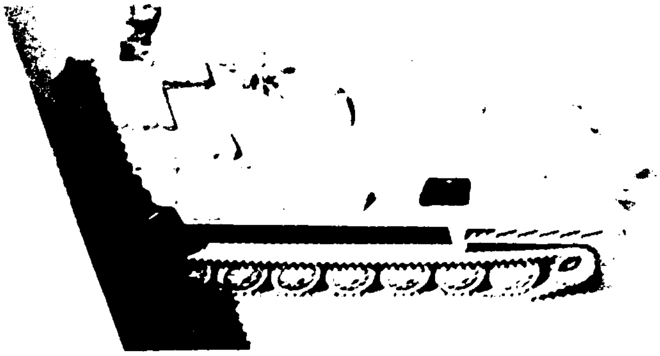
152mm SP

ENTERED SERVICE IN 1973
MAXIMUM RANGE 33,000m WITH RAP ROUND (?)
NOT AMPHIBIOUS
1 BATTALION (18) IN THE ARTILLERY REGT OF THE MRD AND TD (REPLACING THE 152mm D-1)
1 REGIMENT OF 4 BATTALIONS (72) ASSIGNED TO FRONT (REPLACING THE 152mm D-1)

ARMORED VEHICLES EMPLOYED WITH ARTILLERY



BATTALION COMMAND VEHICLE



ARTILLERY COMMAND VEHICLE

ARTILLERY OBSERVATION VEHICLE

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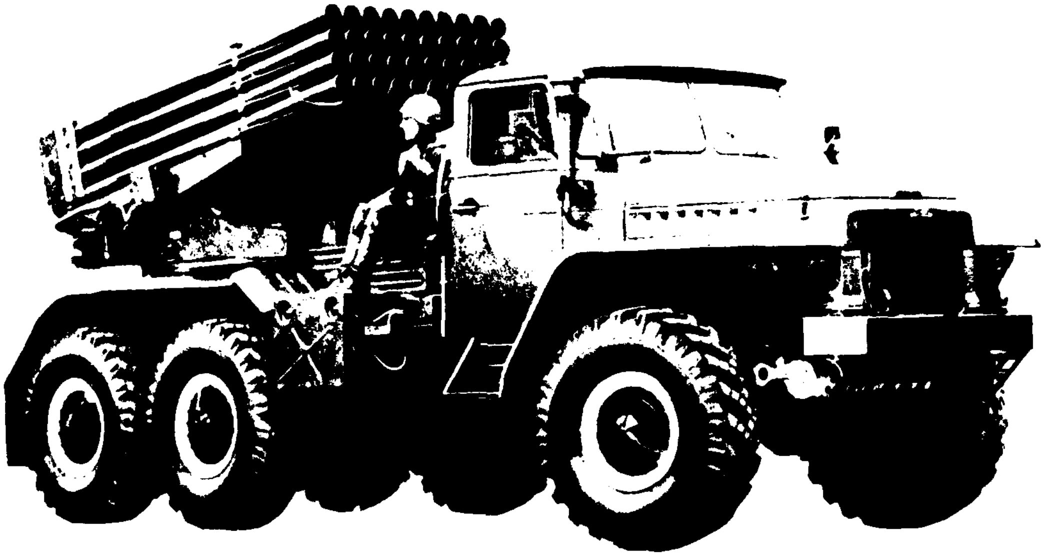
3 - MULTIPLE ROCKET LAUNCHERS



LRM BM-21

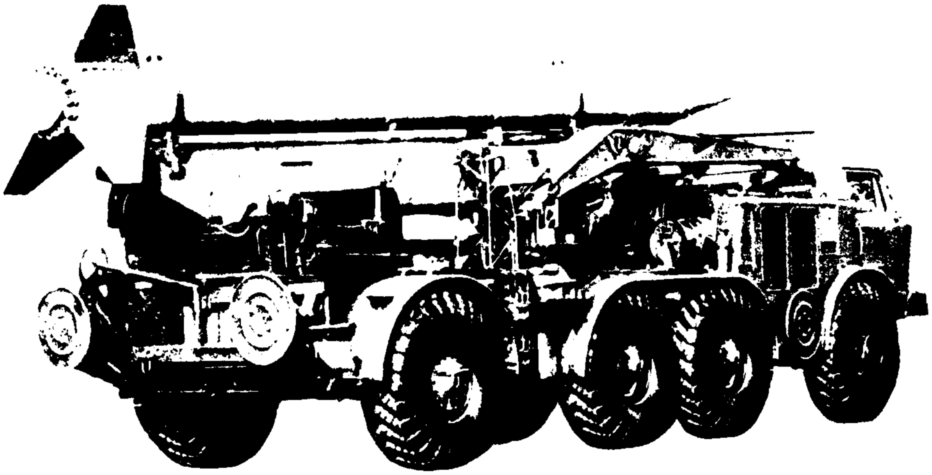
ENTERED SERVICE IN 1964
CHASSIS: URAL 375
FORTY 122mm ROCKETS
MAXIMUM RANGE: SHORT ROCKET 14,000m
LONG ROCKET 21,000m
ONLY LIGHT MRL IN SERVICE WITH G.S.F.G.
1 BATTALION (18) IN ARTY REGT OF MRD AND TD
1 REGIMENT (72) ASSIGNED TO FRONT

4

LOADING THE BM-21 (5 MEN, 15 MINUTES)

C - TACTICAL MISSLES

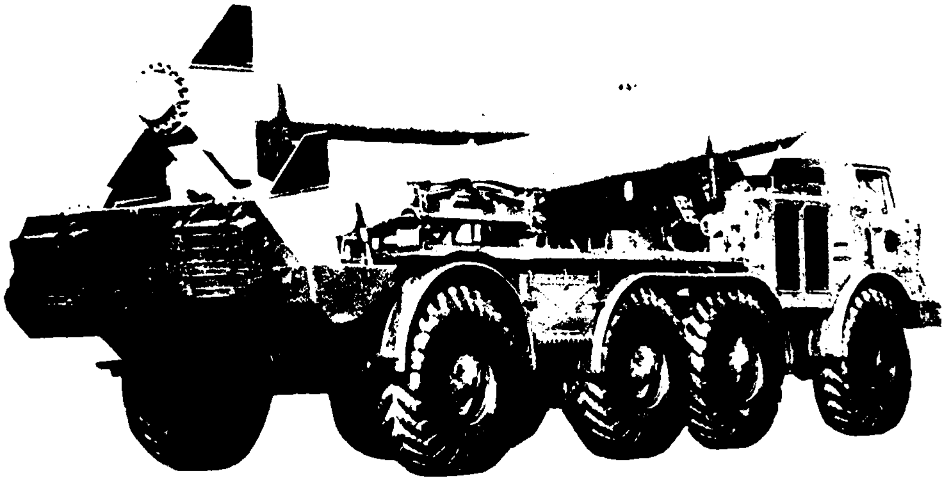
1 - ROCKETS



FROG-7 on ZIL 135

ENTERED SERVICE IN 1965
EFFECTIVE RANGE FROM 15 to 70 KM
FROG 7 A - NUCLEAR ROUND
FROG 7 B - CHEMICAL ROUND

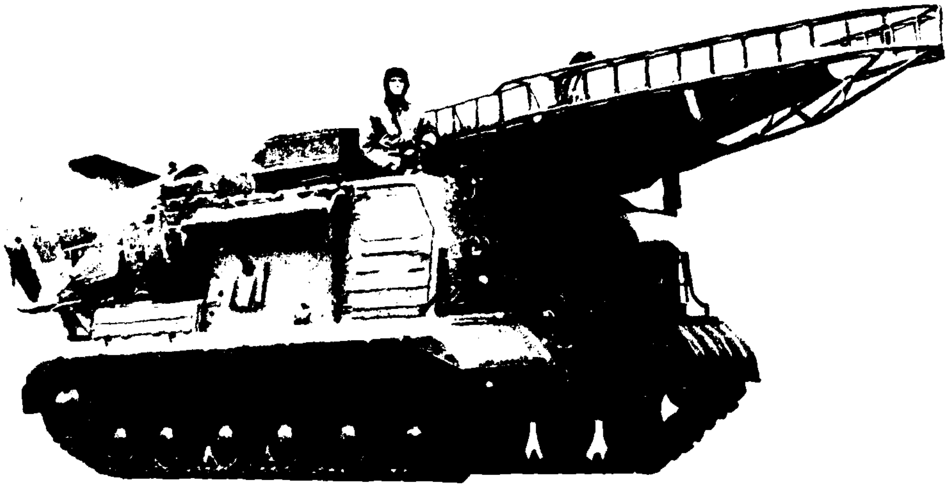
1 BATTALION (4) IN MRD AND TD



FROG-7 RESUPPLY VEHICLE

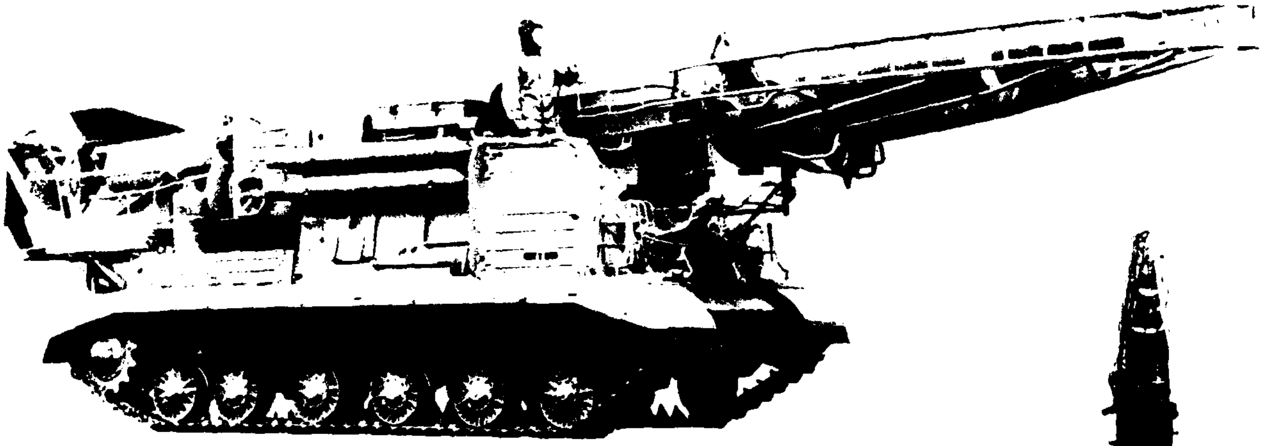
CHASSIS SIMILIAR TO FROG 7
CAN CARRY UP TO 3 FROG MISSLES

2 - MISSLES



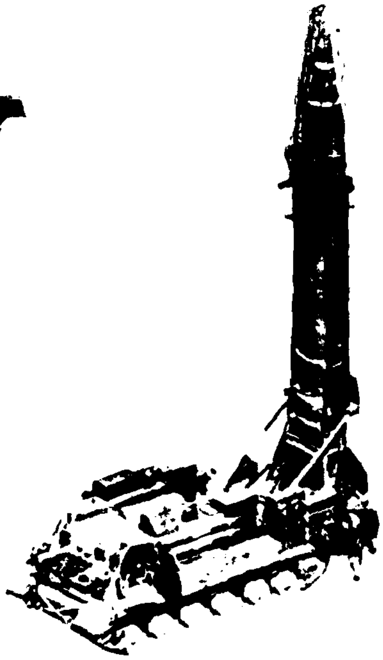
SS-1B SCUD A

ENTERED SERVICE IN 1957
CHASSIS USES MODIFIED JS-4
MAXIMUM RANGE: NUCLEAR 150KM
CHEMICAL 280KM

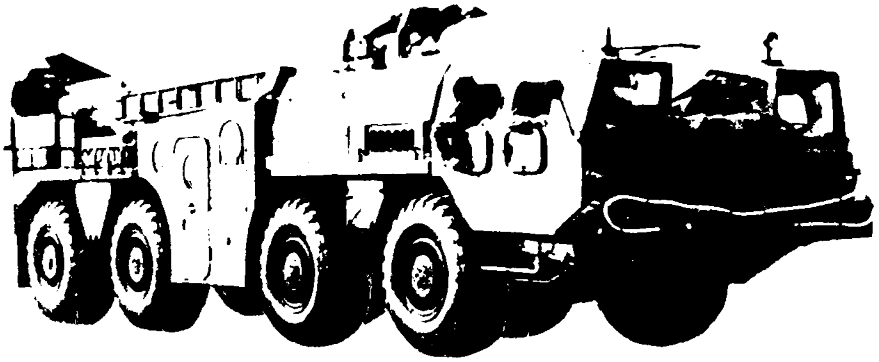


SS-1C SCUD-A MOD

ENTERED SERVICE IN 1961
CHASSIS USES MODIFIED JS-4
MAXIMUM RANGE: NUCLEAR & CHEMICAL 280KM

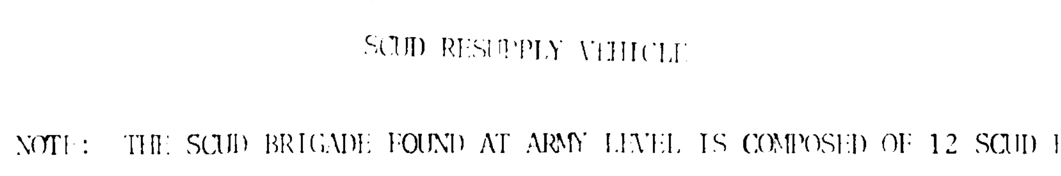


SCUD A IN FIRING
POSITION



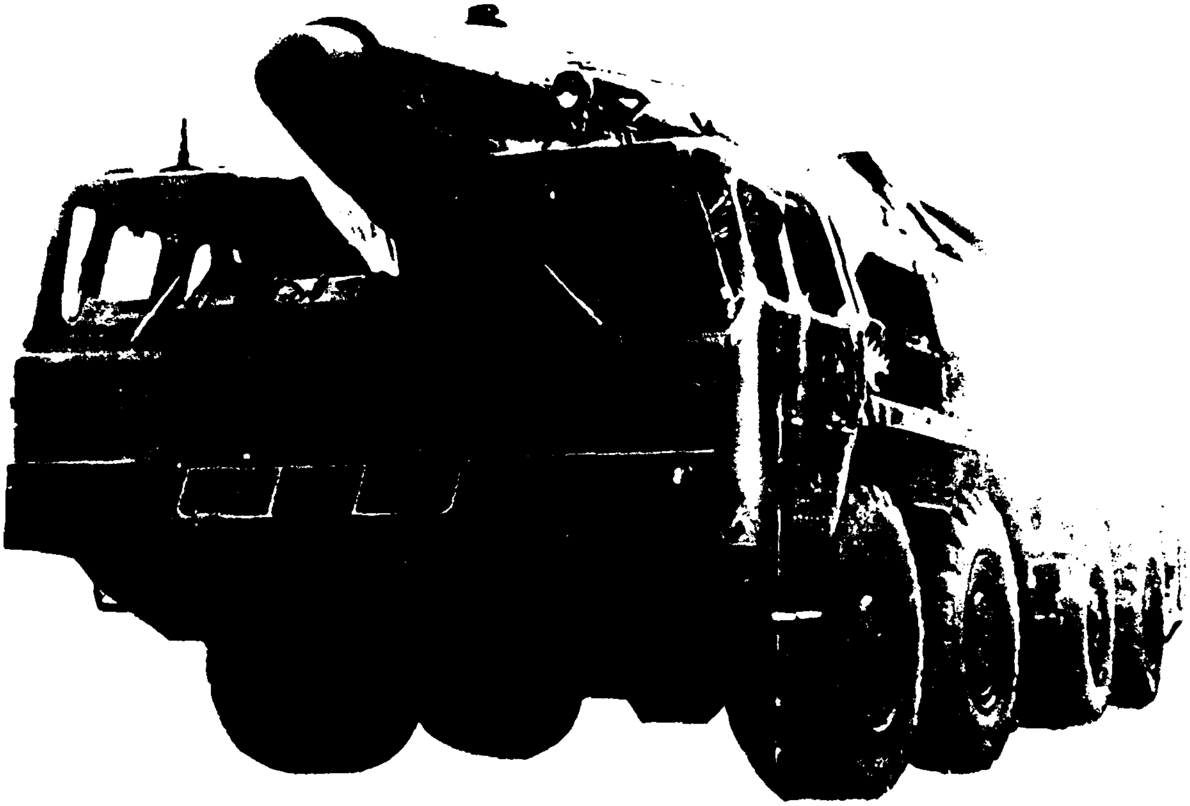
SCUD-B

ENTERED SERVICE IN 1965
CHASSIS USES MODIFIED MAZ 543
PERFORMANCE IDENTICAL TO MODIFIED SCUD A
MAZ 543 REPLACED SCUD'S TRACKED CARRIER



SCUD RESUPPLY VEHICLE

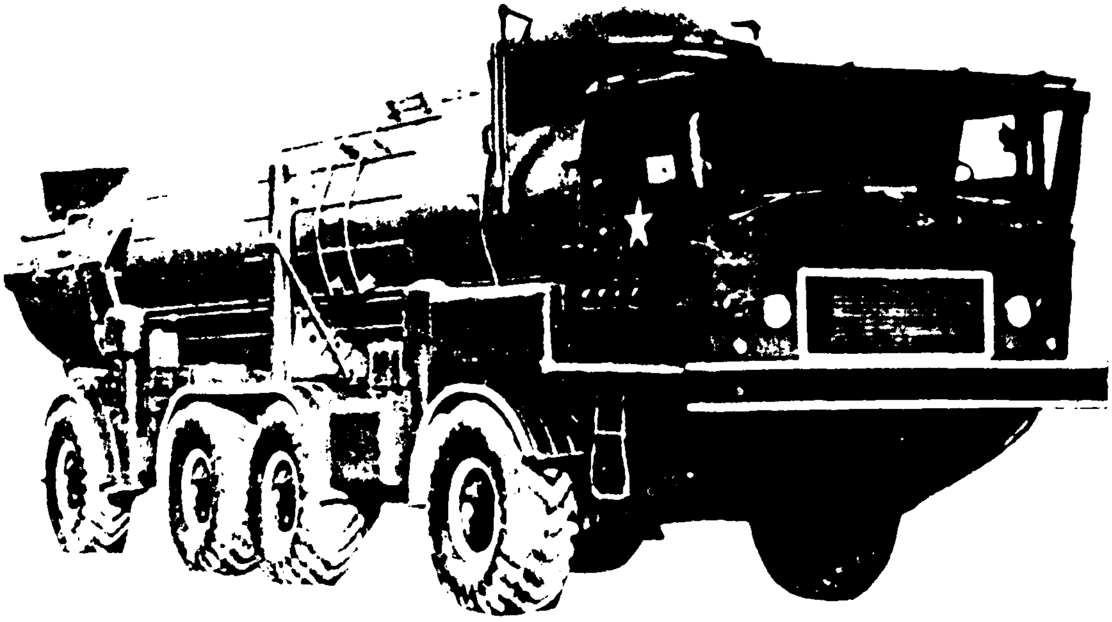
NOTE: THE SCUD BRIGADE FOUND AT ARMY LEVEL IS COMPOSED OF 12 SCUD B LAUNCHERS



SS-12 SCALEBOARD

ENTERED SERVICE IN 1967
CHASSIS USES A MODIFIED MAZ 543
MAXIMUM RANGE 900 KM

WEIGHT OF MISSLE: 8.5 TONS
LENGTH OF MISSLE: 11.7m
DIAMETER OF MISSLE: 1m

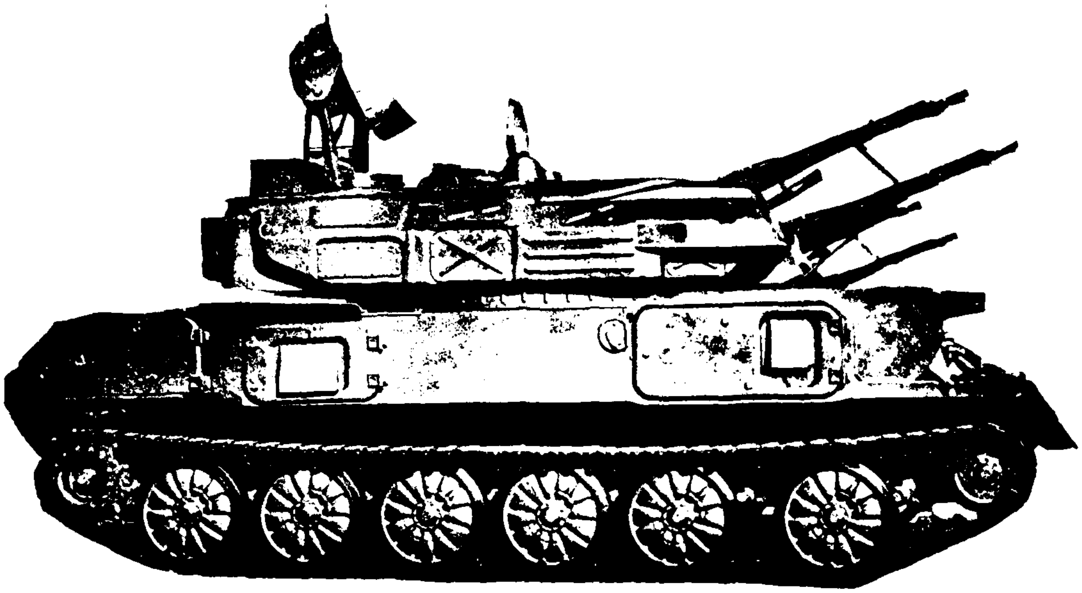


SSC-1A SHADDOCK

ENTERED SERVICE IN 1961
CHASSIS USES A ZIL 135
MAXIMUM RANGE: 550 KM
BOTH NUCLEAR AND CHEMICAL ROUNDS
WEIGHT OF MISSLE: 4.5 TONS
LENGTH OF MISSLE: 11.6m
DIAMETER OF MISSLE: 0.76m

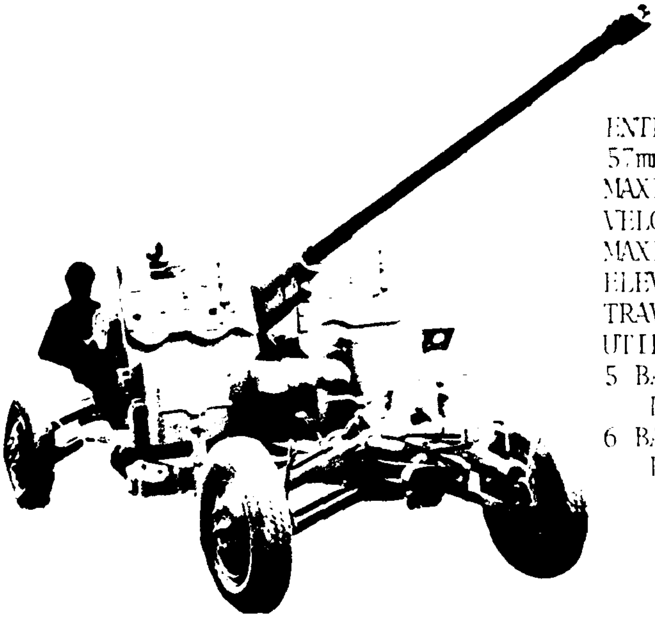
NOTE: NEITHER THE SCALEBOARD NOR THE SHADDOCK HAVE BEEN OBSERVED IN THE G.S.F.G.
BOTH SYSTEMS COULD BE EMPLOYED AT ARMY LEVEL WITH UP TO 2 BRIGADES (12) SUPPORTING THE ARMY

D - ANTIAIRCRAFT WEAPONS



ZSU-23-4

ENTERED SERVICE IN 1965
FOUR 23mm CANNON
ONE 'GUN DISH' FIRING RADAR
MAXIMUM EFFECTIVE RANGE: OPTICAL 2500m
RADAR 3200m
MAXIMUM RATE OF FIRE 850 rds/min
ELEVATION: -10° to 85°
TRAVERSE: 360°
1 SECTION (4) IN THE AIR DEFENSE BATTERY OF THE MRR & TR



S-60 57mm

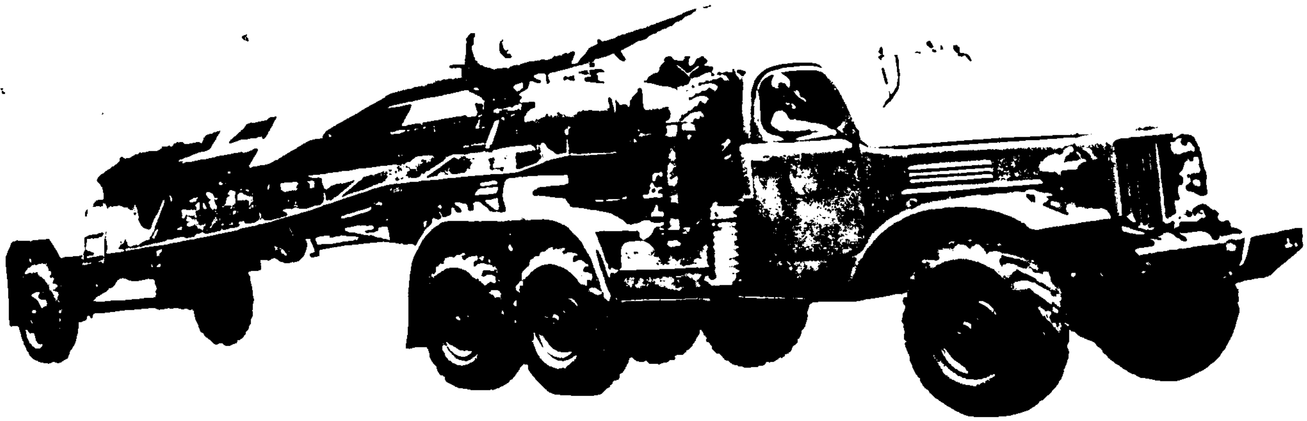
ENTERED SERVICE IN 1955
57mm AA GUN
MAXIMUM EFFECTIVE RANGE (WITH RADAR): 4000m
VELOCITY (INITIAL) : 1000m/sec
MAXIMUM RATE OF FIRE: 120 rds/min
ELEVATION: -4° to 85°
TRAVERSE: 360°
UTILIZES THE 'FLAP WHEEL' RADAR
5 BATTERIES (6 GUNS IN A BATTERY) IN THE DIVISION'S ANTIAIRCRAFT REGIMENT
6 BATTERIES IN THE AA REGIMENT AT ARMY AND FRONT

(1) THE 'FLAP WHEEL' REPLACED THE SON-9 RADAR AND THE PUAZO 6/60 CALCULATOR

NOTE: THE TWIN BARREL ZU-23-2, ZPU-2 and ZSU-57-2 ARE BEING PHASED OUT OF THE G.S.F.G. INVENTORY

2 - SURFACE TO AIR MISSLES

SA-2 GUIDELINE

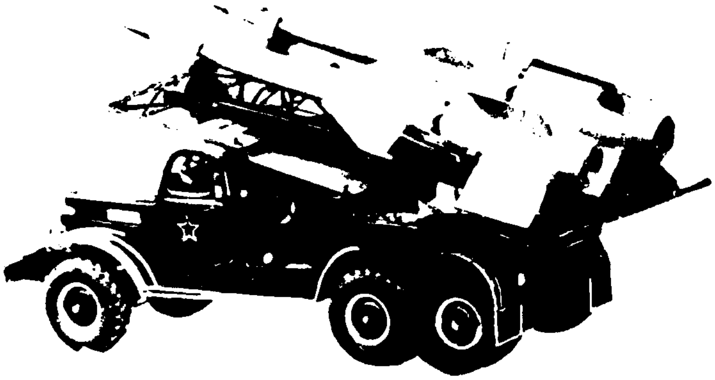


SA-2 CARRIED ON A ZIL 157 TRANSPORT-RESUPPLY VEHICLE

ENTERED SERVICE IN 1960
AIR DEFENSE MISSLE FOR MIDDLE AND HIGH ALTITUDE TARGETS
MAXIMUM RANGE 4 ,000m
EFFECTIVE RANGE 40,000m
PRIMARILY USED AGAINST TARGETS FLYING BETWEEN 300 to 27,000m
MAXIMUM SPEED OF MISSLE: MACH 3.5
REACTION TIME FROM DETECTION TO FIRING IS 60 seconds
ASSOCIATED EQUIPMENT: ACQUISITION RADAR - SPOON REST
IFF RADAR - SCORE BOARD/A
FIRE CONTROL RADAR - FAN SONG
MISSLE WARHEAD: HE 200 KG

TWO STAGE PROPULSION SYSTEM USING PROPERGOL

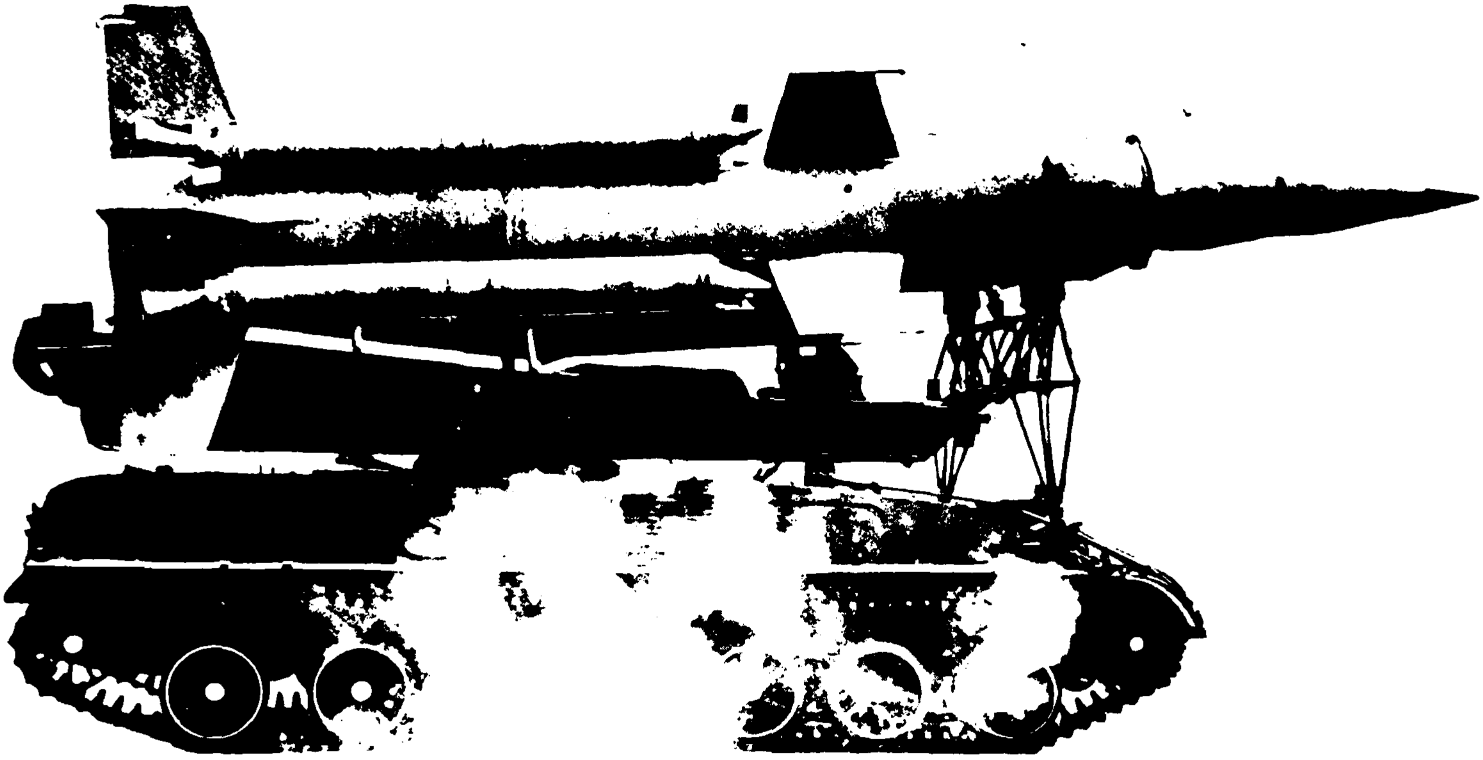
SA-3 GOA



SA-3 CARRIED ON A MODIFIED ZIL 157 TRANSPORT- RESUPPLY VEHICLE

ENTERED SERVICE IN 1961
AIR DEFENSE MISSLE FOR LOW AND MEDIUM LEVEL TARGETS
MAXIMUM RANGE 35 KM
PRIMARILY USED AGAINST TARGETS FLYING BETWEEN 300 to 15,000m
ASSOCIATED EQUIPMENT: ACQUISITION RADAR - FLAT FACE & SQUAT EYE
TARGET TRACKING & GUIDANCE RADAR - LOW BLOW
MISSLE WARHEAD: HE 40 KG

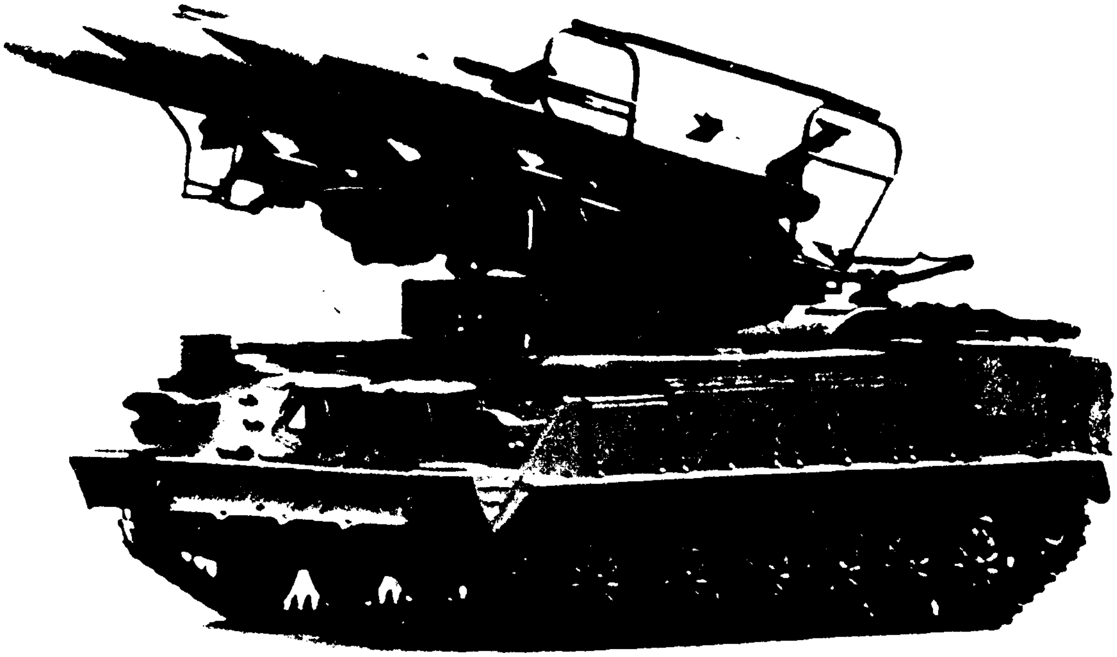
SA-4 GANEF



SA-4 ON TRACKED CHASSIS WHICH ALSO SERVES AS FIRING PLATFORM

ENTERED SERVICE IN 1961
AIR DEFENSE MISSLE FOR MIDDLE AND HIGH ALTITUDE TARGETS
MAXIMUM RANGE 92,000m
EFFECTIVE RANGE 55,000m
PRIMARILY USED AGAINST TARGETS FLYING BETWEEN 300 to 24,000m
MAXIMUM SPEED OF MISSLE: MACH 2.5
ASSOCIATED EQUIPMENT: ACQUISITION RADAR - LONG TRACK
FIRE CONTROL RADAR - PAT HAND
ALTITUDE RADAR - THIN SKIN
MISSLE WARHEAD: HE 250 KG
FOUR SOLID-PROPELLANT WRAP-AROUND BOOSTERS
1 BRIGADE OF 3 BATTALIONS (27) COMPRISED OF 3 BATTERIES WITH 3 SA-4 PER ARMY
2 BRIGADES OF 3 BATTALIONS (54) ASSIGNED TO FRONT

SA-6 GAINFUL



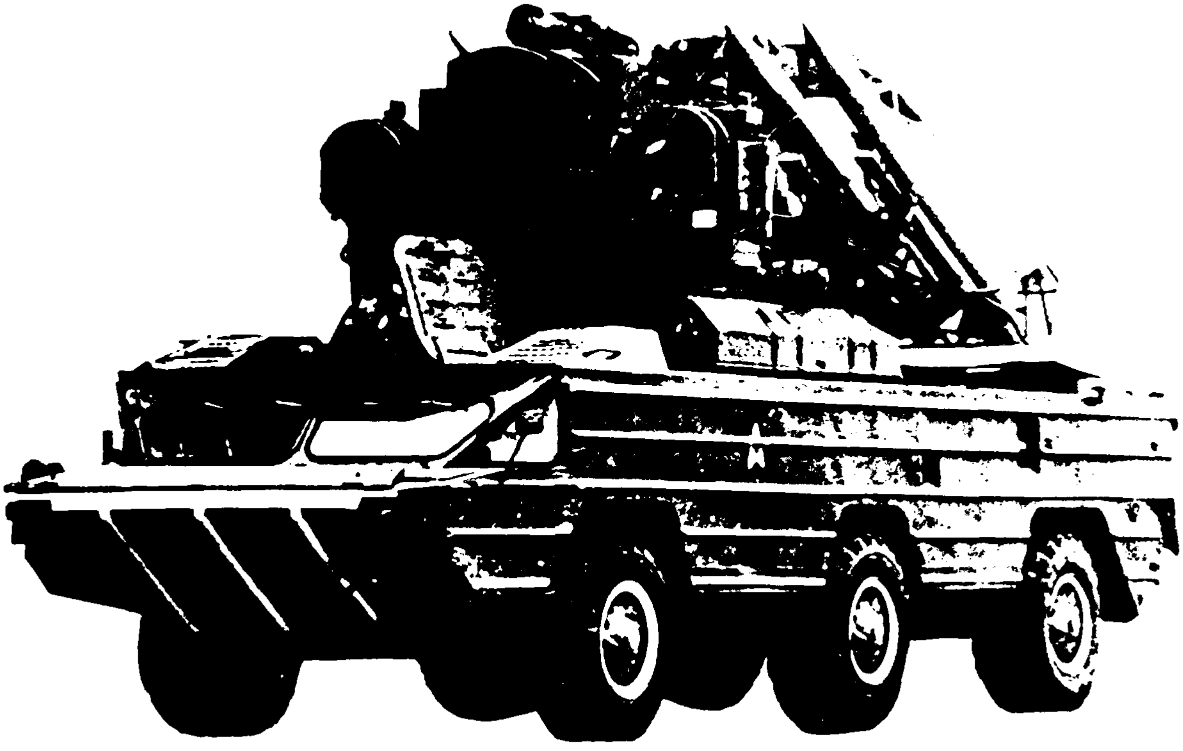
SA-6 ON TRACKED CHASSIS WHICH ALSO SERVES AS FIRING PLATFORM

ENTERED SERVICE IN 1967
AIR DEFENSE MISSLE FOR LOW AND MIDDLE ALTITUDE TARGETS
A MOBILE AIR DEFENSE SYSTEM DESIGNED TO PROVIDE AIR DEFENSE COVERAGE FOR THE TROOPS IN THE FIELD
MAXIMUM RANGE 21,000m
EFFECTIVE RANGE 17,000m
PRIMARILY EMPLOYED AGAINST TARGETS FLYING BETWEEN 50 to 13,000m
MAXIMUM SPEED OF MISSLE: MACH 2.5
REACTION TIME FROM DETECTION TO FIRING IS FROM 10 to 15 sec.
ASSOCIATED EQUIPMENT: ACQUISITION RADAR - LONG TRACK
FIRE CONTROL RADAR - STRAIGHT FLUSH
ALTITUDE RADAR - THIN SKIN
MISSLE WARHEAD: HE 56 KG
SOLID FUEL PROPULSION WITH ONE BOOSTER
2 REGIMENTS (40) CONSISTING OF 5 BATTERIES (20) OF 4 SA-6 PER ARMY

SA-7 GRAIL

ENTERED SERVICE IN 1969
MAN PORTABLE AIR DEFENSE MISSLE FOR LOW ALTITUDE TARGETS
MAXIMUM RANGE 5,600m
EFFECTIVE RANGE 5,500m
PRIMARILY EMPLOYED AGAINST TARGETS FLYING BETWEEN 15 to 2,500m
MAXIMUM SPEED OF MISSLE: 450 m/sec
INFRA-RED HOMING
THE FIRER NORMALLY WEARS AN IFF SYSTEM ON HIS HELMET
SOLID FUEL PROPULSION
INEFFECTIVE AGAINST TARGETS FLYING AT MORE THAN 810 KM/HR
3 SA-7 IN A MOTORIZED RIFLE COMPANY and 3 SA-7 IN THE RECON COMPANY OF THE MRR (TOTAL OF 30 SA-7 IN THE MRR).
6 SA-7 IN THE TANK REGIMENT (3 IN THE RECON COMPANY AND 3 IN THE HEADQUARTERS ELEMENT)

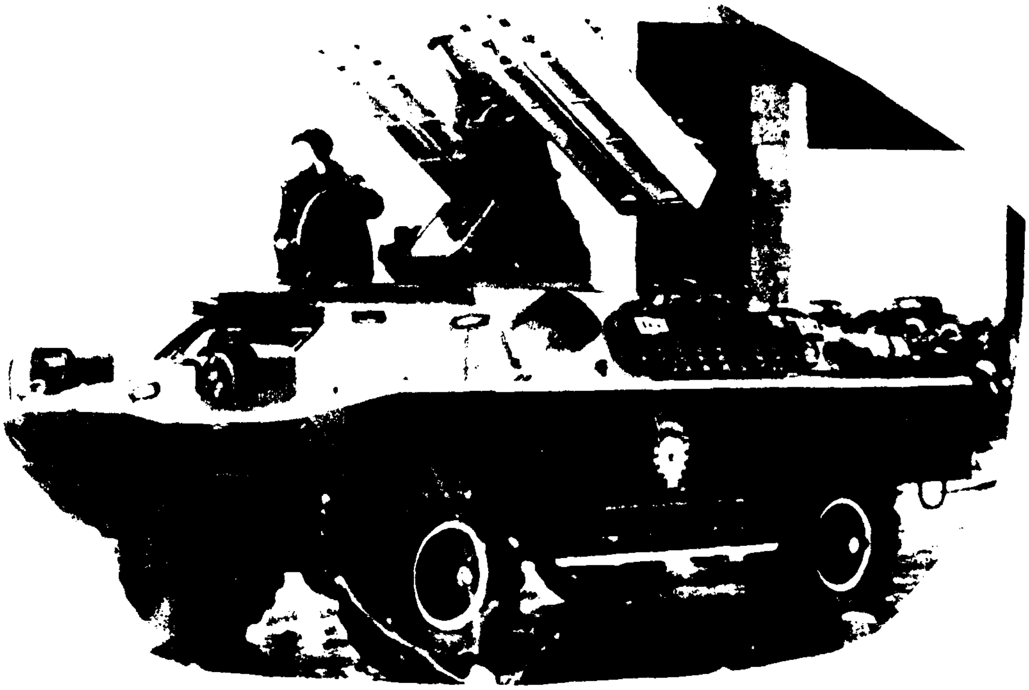
SA-8 GECKO



SELF CONTAINED AIR DEFENSE SYSTEM - SA 8 GECKO

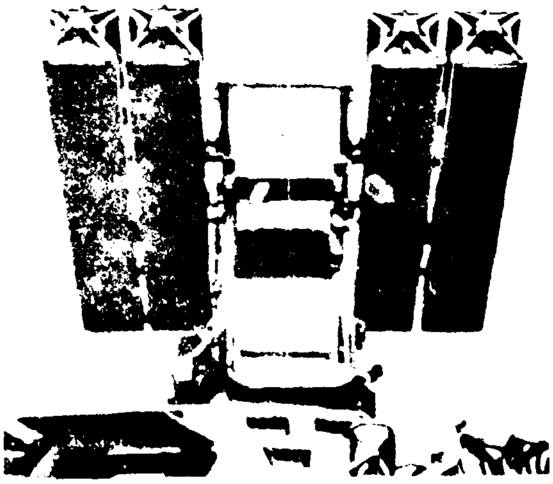
ENTERED SERVICE IN 1975
MOUNTED ON AN AMPHIBIOUS 6 x 6 CHASSIS
AIR DEFENSE MISSLE FOR LOW AND MIDDLE ALTITUDE TARGETS
BEING BOTH MOBILE AND SELF CONTAINED THE SYSTEM
PROVIDES MOBILE AIR DEFENSE COVERAGE FOR MANEUVER UNITS
MAXIMUM RANGE 14,000 m
EFFECTIVE RANGE 11,000m
PRIMARILY EMPLOYED AGAINST TARGETS FLYING BETWEEN 30 to 8500m
MAXIMUM SPEED OF MISSLE: MACH 2.2
REACTION TIME FROM DETECTION TO FIRING IS FROM 10 to 12 sec
CARRIES THE LAND ROLL RADAR SYSTEM WHICH COMBINES ACQUISITION,
SURVEILLANCE AND FIRE CONTROL RADARS
MISSLE WARHEAD: HE 23 KG
SOLID (PROPERGOL) PROPELLANT
1 REGIMENT (20) OF 5 BATTERIES (4 SYSTEMS) ARE CURRENTLY
REPLACING THE AIR DEFENSE REGIMENT IN DIVISIONS EQUIPPED
WITH THE S-60 57mm AD GUN
((1) CONTAINS A TELEVISION SYSTEM FOR USE IN CLEAR WEATHER

SA-9 GASKIN on BRDM-2



AIR DEFENSE MISSILE FOR LOW ALTITUDE TARGETS
HIGHLY MOBILE AIR DEFENSE SYSTEM
MAXIMUM RANGE 11,[illegible]
EFFECTIVE RANGE 8,[illegible]
PRIMARILY EMPLOYED AGAINST TARGETS FLYING BETWEEN 50 to 5000m
MAXIMUM SPEED OF MISSILE: MACH 2
EMPLOYS AN INFRARED HOMING GUIDANCE SYSTEM
NORMALLY EMPLOYED IN CONJUNCTION WITH THE ZSU 23-4 AND CAN USE
THE ZSU'S RADAR FOR EARLY WARNING OF APPROACHING TARGETS
MISSILE WARHEAD: HE [illegible] 8 KG
SOLID FUEL PROPULSION
CARRIES 4 MISSILES ON LAUNCH RAILS READY TO FIRE AND TWO ON THE
VEHICLE IN STORAGE CONTAINERS
1 SECTION (4) IN THE AA BATTERY OF THE TR AND MRR

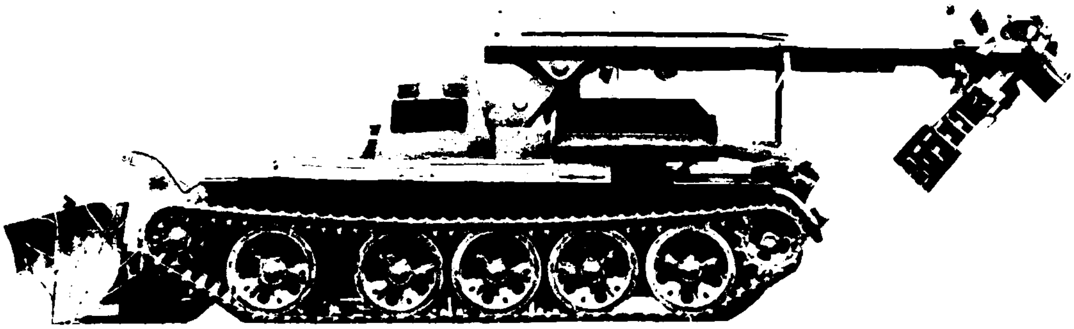
LOADING THE LAUNCH RAIL



FULLY LOADED

V - ENGINEERS

A - COMBAT ENGINEERS



IMR

ENTERED SERVICE IN 1972
WEIGHT 38 TONS
MODIFIED T 54 CHASSIS
CRANE CAPACITY: 11 TONS AT 6m
6 TONS AT 9m

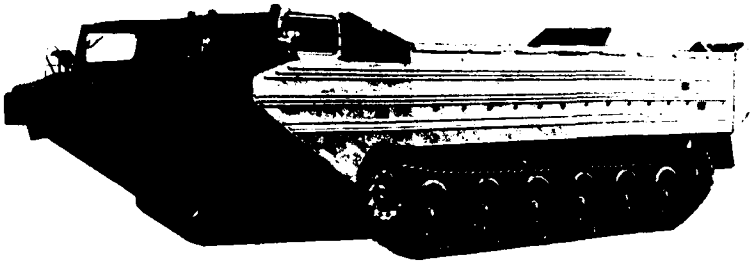
CAN GRADE 360m/hr
4 PER ENGINEER BATTALION OF TD AND MRD

B - RIVER CROSSING EQUIPMENT

1 - RIVER CROSSING EQUIPMENT

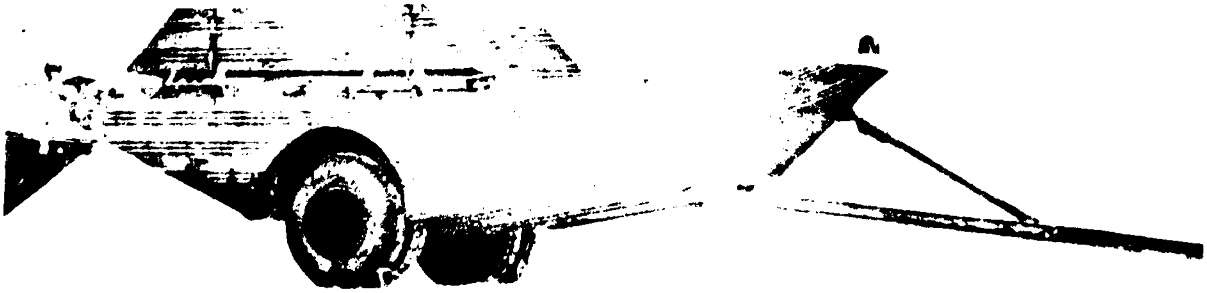
K-61

CAN CARRY A 5 TON LOAD IN WATER
MAXIMUM WATER SPEED 10 km/hr
12 PER ENGINEER BATTALION IN THE TD AND MRD
24 PER ARMY



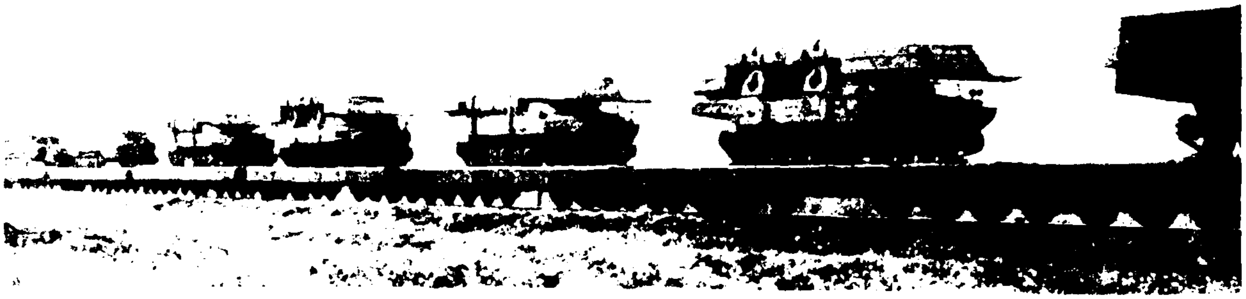
PTS

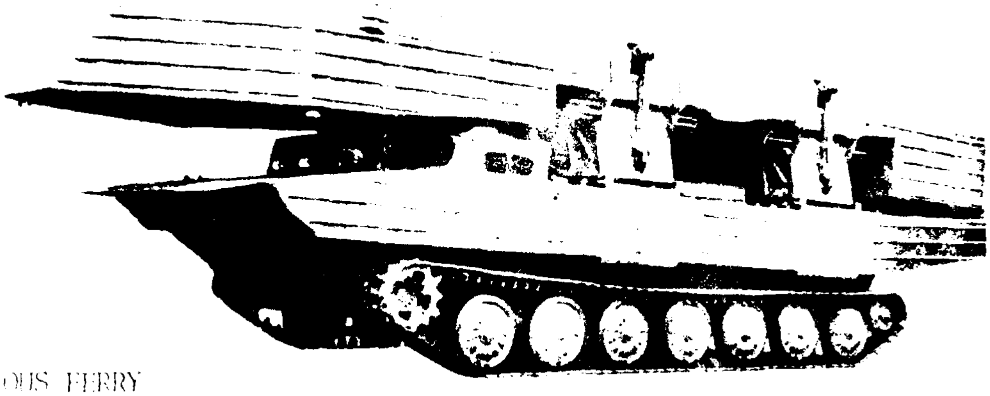
CAN CARRY A 10 TON LOAD IN WATER
MAXIMUM WATER SPEED 15 km/hr
REPLACING THE K 61



PKP TRAILER ASSOCIATED WITH PTS

2 - AMPHIBIOUS FERRY

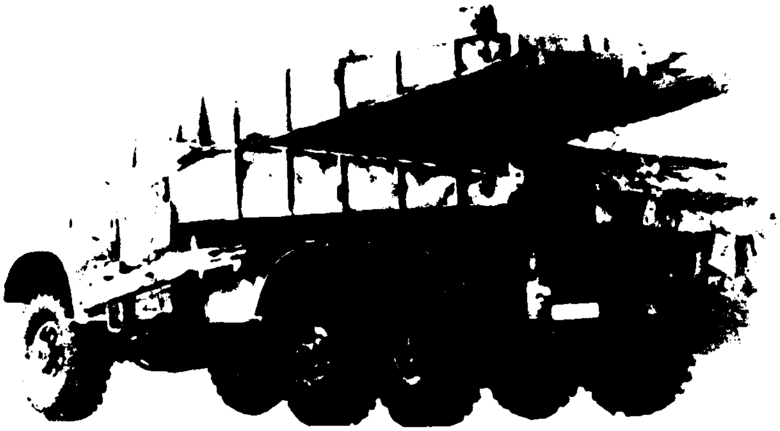




GSP

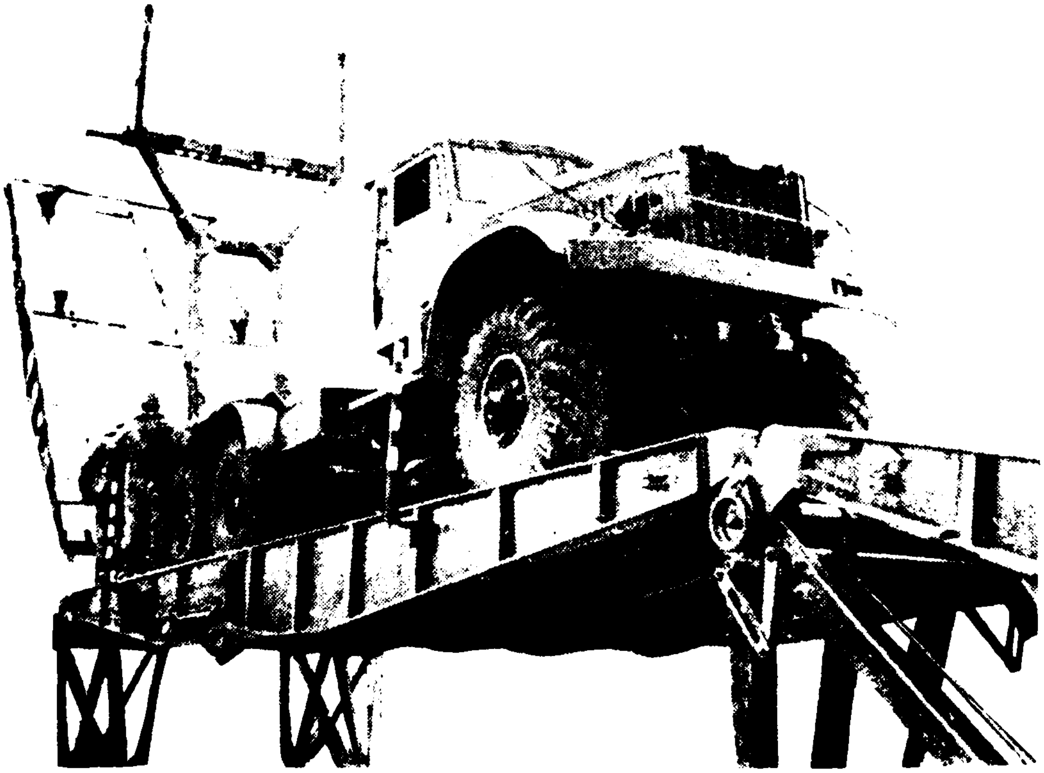
HEAVY AMPHIBIOUS FERRY
1 GSP FERRY CONSISTS OF A RIGHT AND LEFT
HALF FERRY THAT ARE LINKED TOGETHER
CARRYING CAPACITY IN WATER: 50 TONS
MAXIMUM SPEED IN WATER 8 KM/HR
12 PER ENGINEER BATTALION OF TD AND MRD
24 PER ARMY

3 - TACTICAL BRIDGES

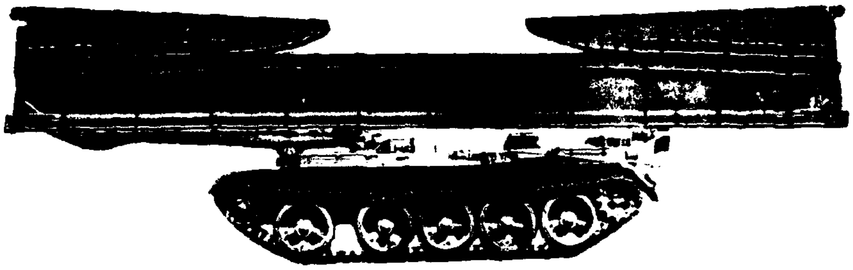


TMM

EMPLOYS THE KRAZ 214 or 255/B
50 TON TREADWAY BRIDGE
LENGTH OF SPAN: 10.5m
TIME TO EMPLACE A BRIDGE WITH 4 SPANS: 40 min
HEIGHT OF TRESTLE LEGS: 3m
4 PER ENGINEER COMPANY OF THE MRR
8 IN THE ENGINEER BATTALION OF THE TD AND MRD

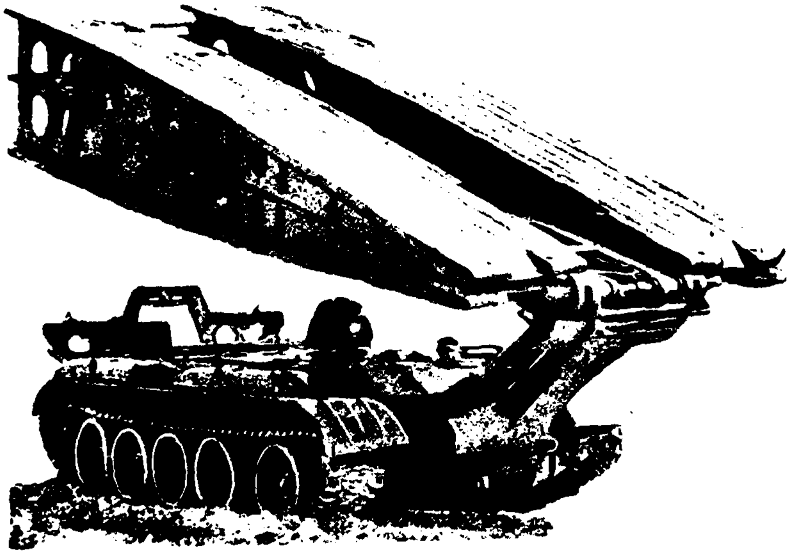


PLACING THE THIRD SPAN



MTU-20

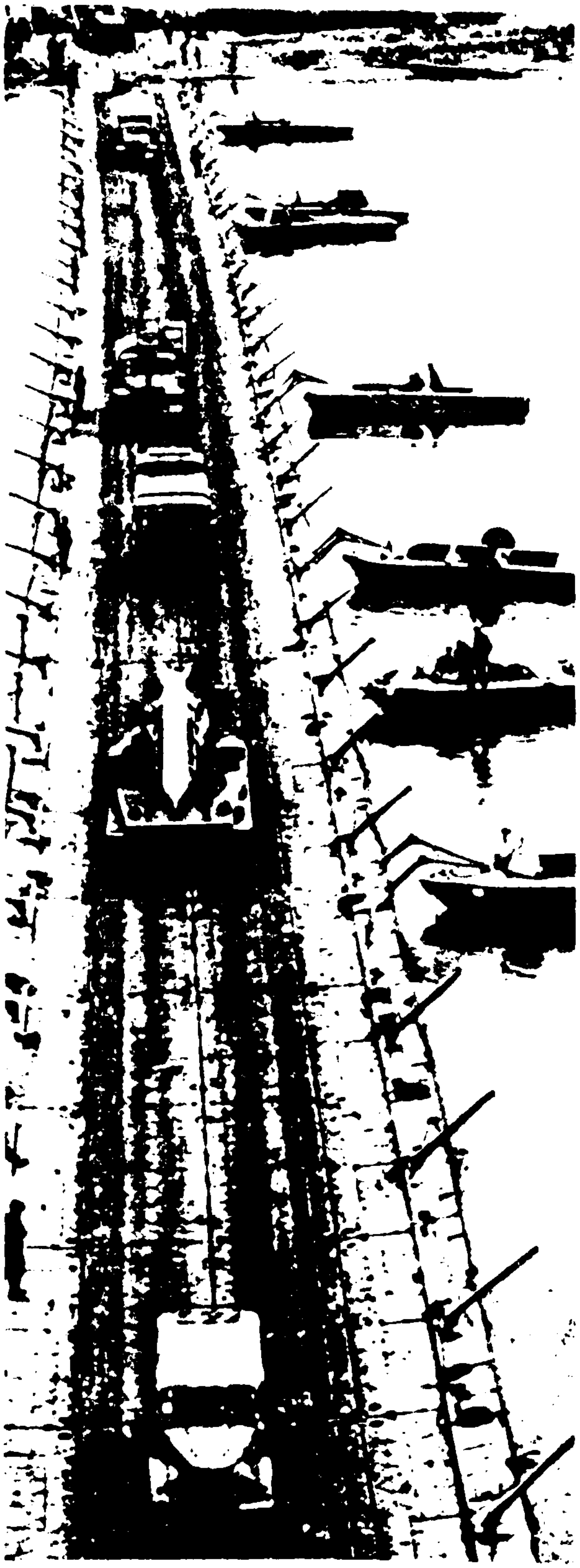
TANK LAUNCHED BRIDGE
EMPLOYS A MODIFIED T 54 CHASSIS
LENGTH OF SPAN: 19.66m
CLASS 60
REPLACING THE MTU-T-54
1 PER ENGINEER COMPANY OF THE MRR
4 PER ENGINEER COMPANY OF THE TR
4 PER ENGINEER BATTALION OF THE MRD
6 PER ENGINEER BATTALION OF THE TD

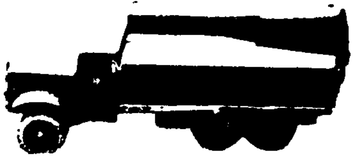


MT-55

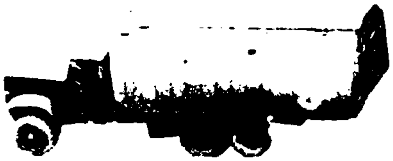
TANK LAUNCHED BRIDGE
BUILT IN CZECHOSLOVAKIA; USED THROUGHOUT
THE WARSAW PACT
EMPLOYS A MODIFIED T-54 CHASSIS
LENGTH OF SPAN: 20m
CLASS 60
TIME TO LAUNCH: 3 min
NORMALLY FOUND WITH THE MTU-20

PMP BRIDGE





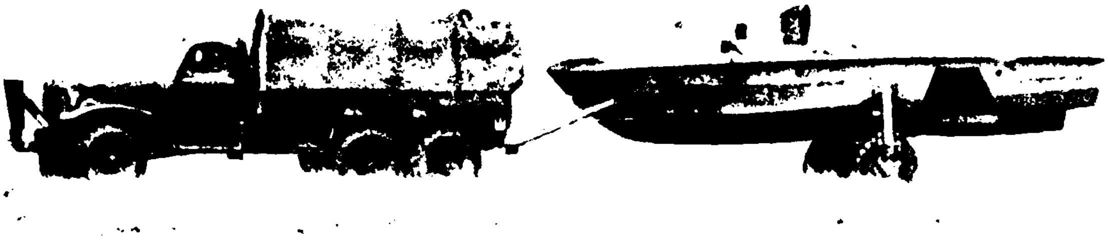
BOW PONTON (RIVERBANK SECTION)



CENTER PONTON

EACH PMP COMPANY CONTAINS:
2 BOW PONTONS
16 CENTER SECTIONS
A PMP COMPANY CAN FORM:
1 120m CLASS 50 BRIDGE
or
4 CLASS 80 FERRIES
TIME TO EMPLACE A 120m BRIDGE: 30 min
1 PMP COMPANY IN THE ENGINEER BATTALION OF THE MRD AND TD
6 to 8 COMPANIES AT ARMY AND FRONT ENGINEER REGIMENT

EQUIPMENT ASSOCIATED WITH THE PMP



BMK 150

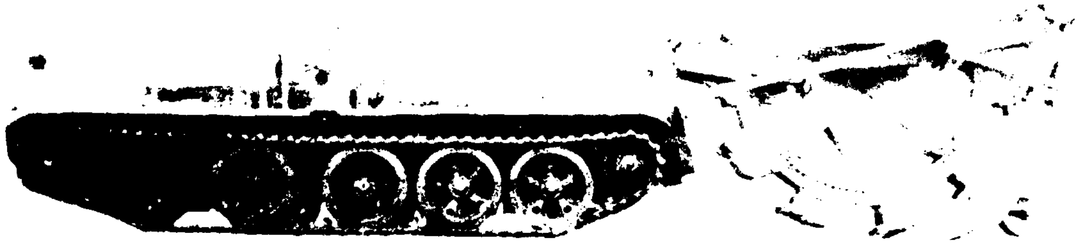
POWERED BY 2 62 HP MOTORS
6 PER PMP COMPANY

BMK-T

TRANSPORTED ON A KRAZ 214
[illegible] HP MOTOR
REPLACING THE BMK 150 M AND THE
BMK [illegible] M POWERBOATS

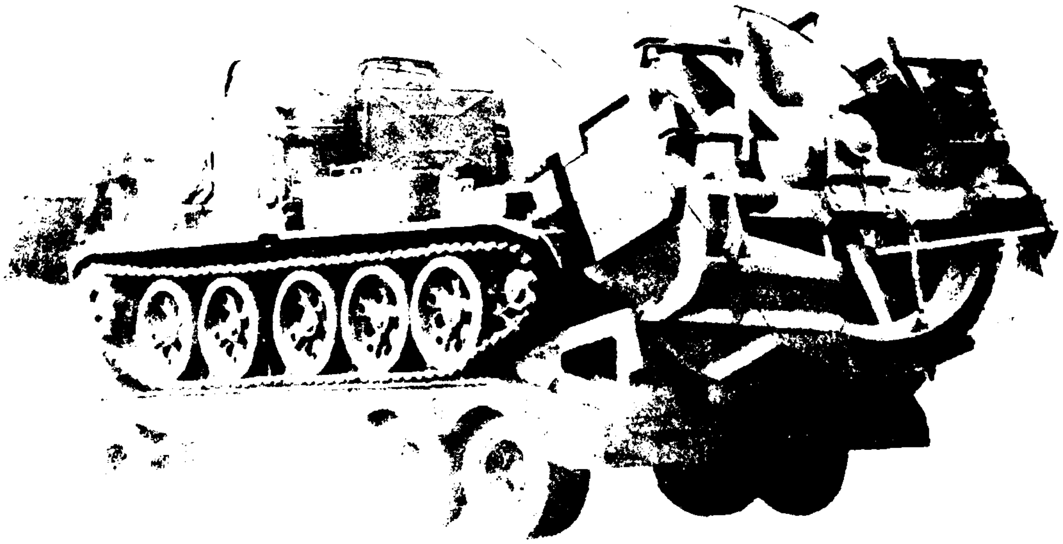
C - SPECIAL PURPOSE EQUIPMENT

1 - DITCHING MACHINES



BTM

MAXIMUM TRENCH DEPTH: 1.5m
WIDTH OF TRENCH: 0.6m
CAN DIG A 0.8m DEEP TRENCH AT A RATE OF 1100m/hr
1 BTM PER ENGINEER COMPANY OF THE MRR AND TR
4 BTM IN THE ENGINEER BATTALION OF THE MRD AND TD



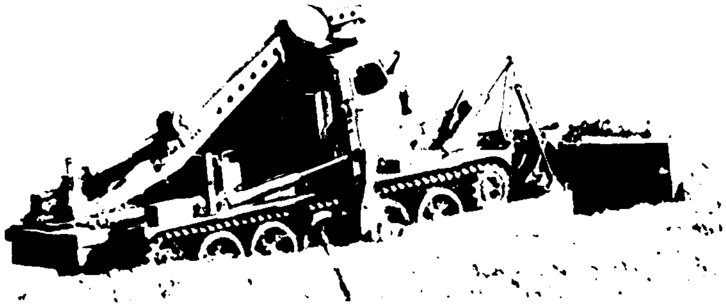
MDK-2

MAXIMUM TRENCH DEPTH: 4.5m
WIDTH OF TRENCH: 4m
CAN DIG 300 CUBIC METERS PER HOUR
AN ARMY ENGINEER ASSET THAT CAN BE ASSIGNED TO DIVISION LEVEL

2 - EARTHMOVING EQUIPMENT

BTU PLOW

IS NORMALLY FITTED TO A TANK IN APPROXIMATELY 90 min
CAN MOVE 100 to 200 CUBIC METERS OF EARTH PER HOUR
3 PER ENGINEER COMPANY IN THE MRR AND TR



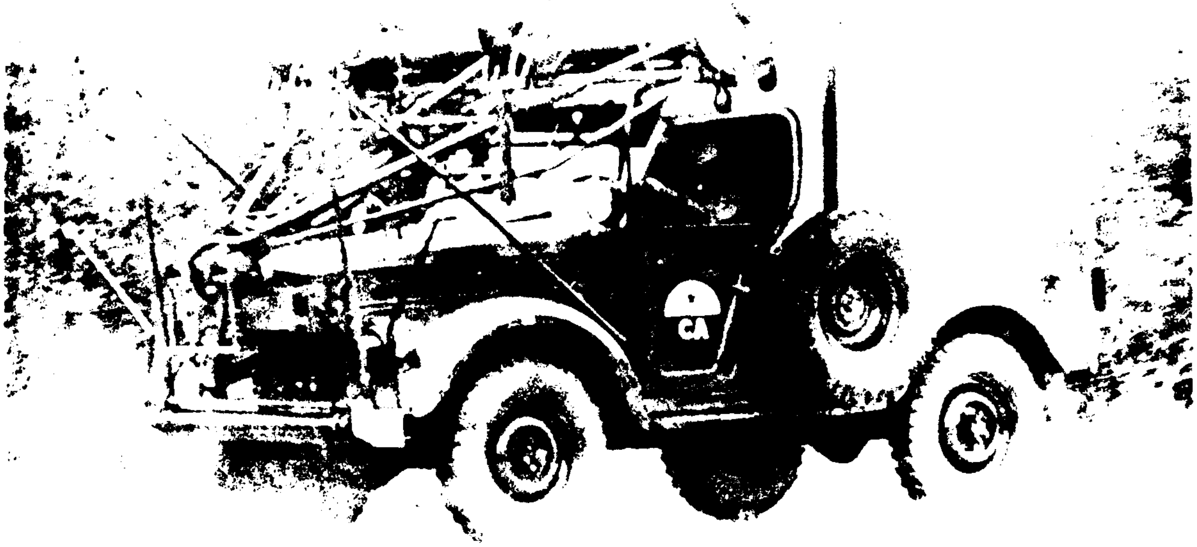
BAT-M

ARTILLERY TRACTOR WITH DOZER BLADE AND CRANE
REPLACING THE OLDER MODEL BAT
DOZER BLADE IS HYDRAULICALLY OPERATED
1 PER ENGINEER COMPANY IN THE MRR AND TR
8 PER ENGINEER BATTALION IN THE MRD AND TD

E-305 V

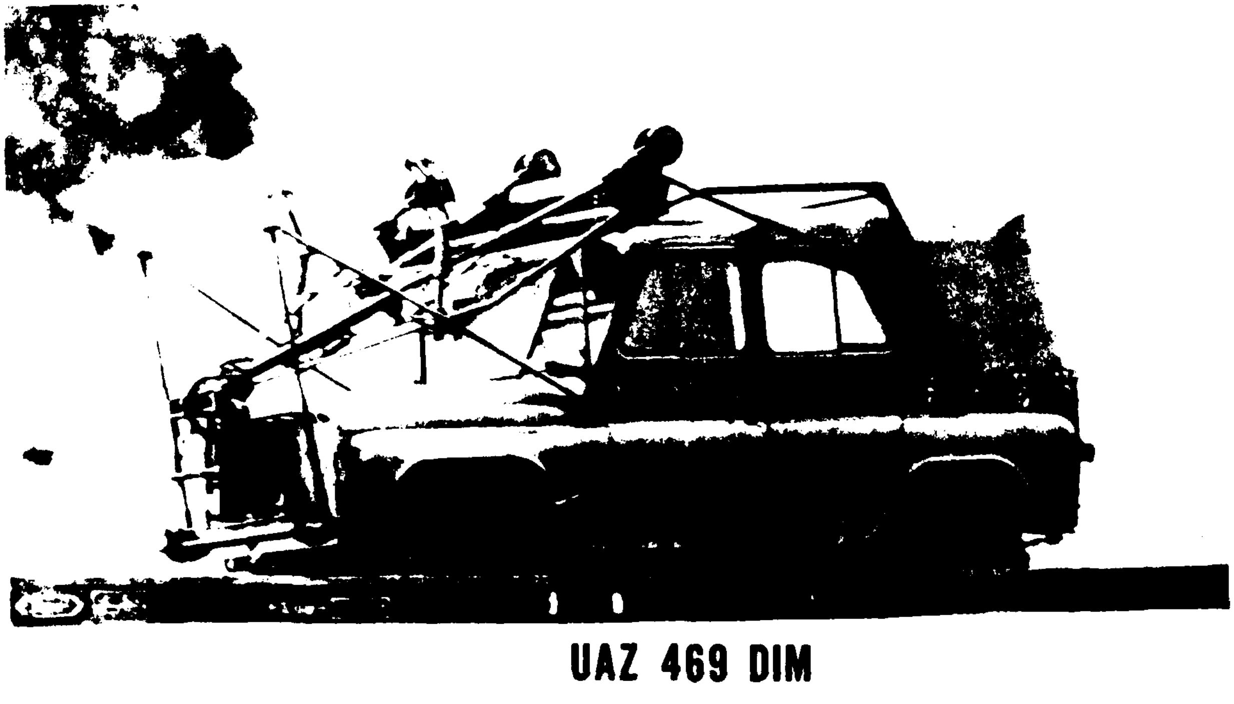
CRANE SHOVEL
CRANE CAPACITY 5 TONS
SHOVEL CAPACITY 0.3 CUBIC METERS
2 PER ENGINEER COMPANY OF THE TR AND MRR
3 PER ENGINEER BATTALION IN THE TD AND MRD
ALSO FOUND AT ARMY LEVEL

3- MINE CLEARING EQUIPMENT



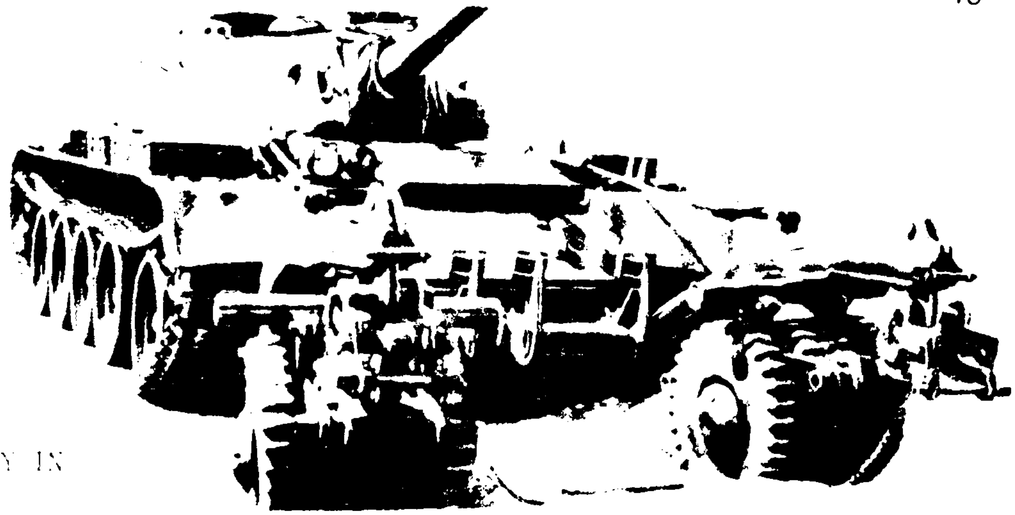
GAZ 69 DIM

3 PER ENGINEER COMPANY IN THE MRR



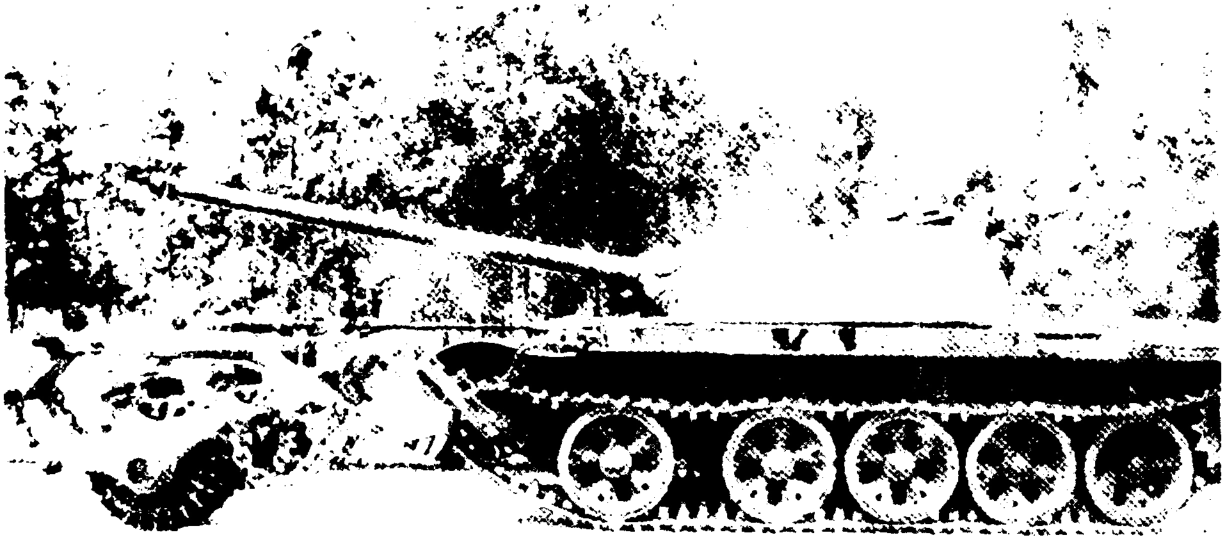
UAZ 469 DIM

REPLACING THE GAZ 69 DIM



KMT 4

MINE CLEARING ROLLERS
12 PER ENGINEER COMPANY IN
THE MRR AND TR



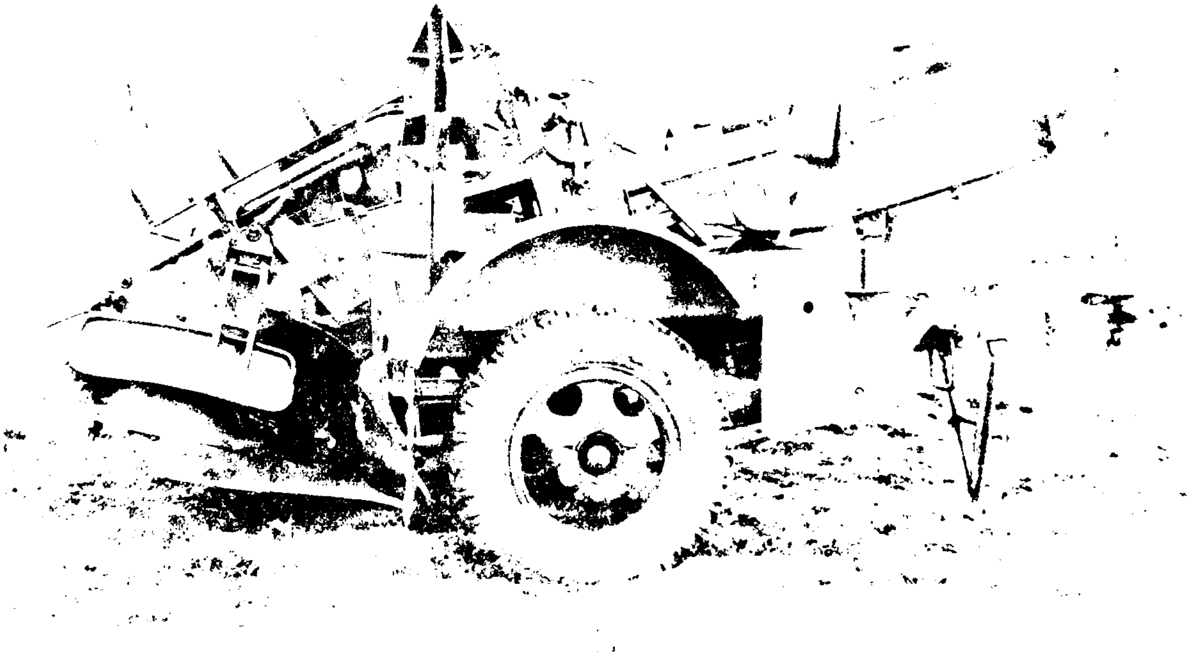
KMT 5 : REPLACING THE KMT-4

T55 with Mine Clearing Rocket

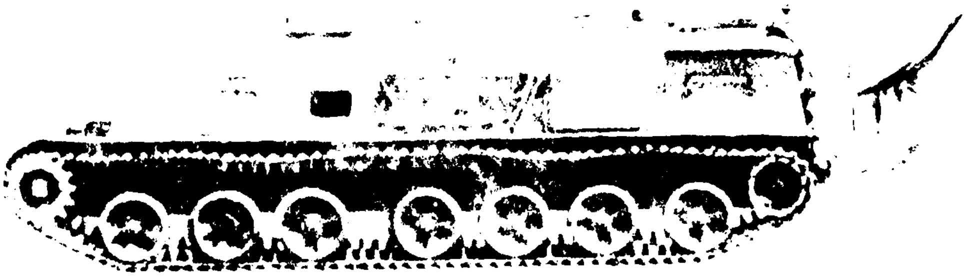
4 - MINE LAYERS

PMR 60

MINELAYER
3 PER ENGINEER COMPANY OF
THE MRR AND TR
4 PER ENGINEER BATTALION
IN THE TD AND MRD



PMR 3 REPLACING THE PMR 60

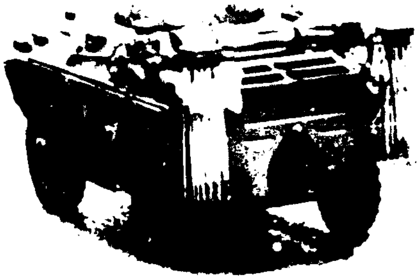


GMZ

TRACKED MINELAYER
[illegible] PER ENGINEER BATTALION IN
THE TANK DIVISION

VI - N.B.C.

A - NBC RECONNAISSANCE VEHICLES



BRDM RKh

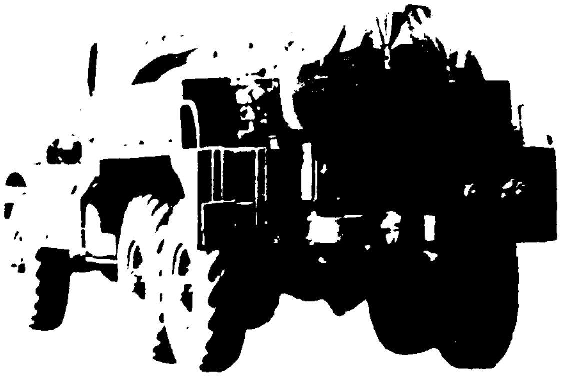
EQUIPPED WITH TWO ARTICULATED RAILS THAT PERMIT THE VERTICLE EMPLACEMENT OF FLAGS TO INDICATE CONTAMINATED AREAS OR ROUTES THROUGH THESE AREAS

4 PER N.B.C. SECTION OF THE MRR AND TR
6 PER RECONNAISSANCE BATTALION OF THE MRD AND TD

BRDM-2 RKh

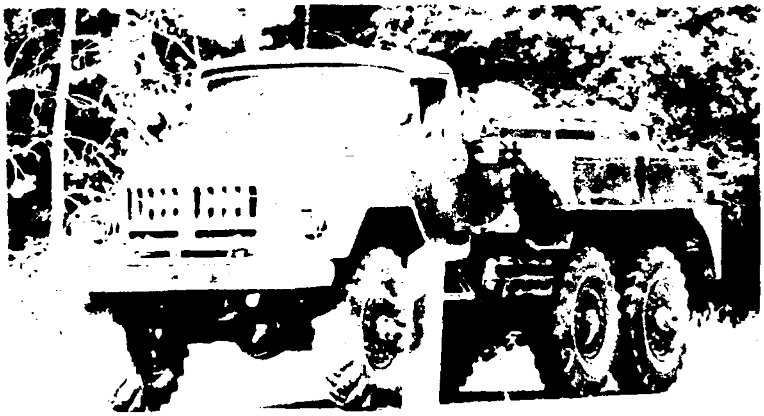
EMPLOYED WITH THE BRDM RKh
IN THE PHOTO THE RAILS ARE IN THE
TRAVEL POSITION

B - DECONTAMINATION VEHICLES



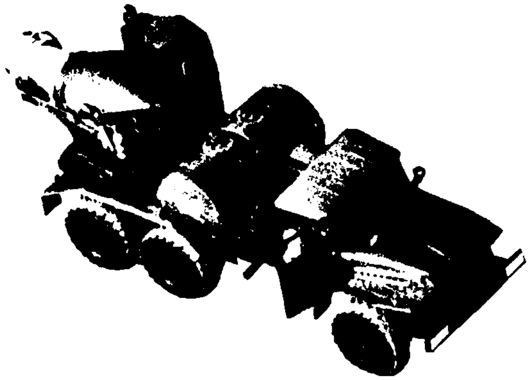
ARS-12

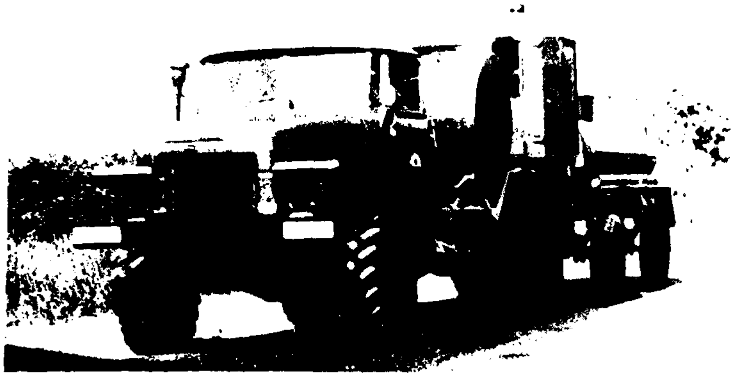
DECONTAMINATION TANKER
ASSIGNED TO THE N.B.C. COMPANY OF
THE MRR AND TR AND THE N.B.C.
BATTALION OF THE MRD AND TD



ARS-14

GRADUALLY REPLACING THE ARS-12



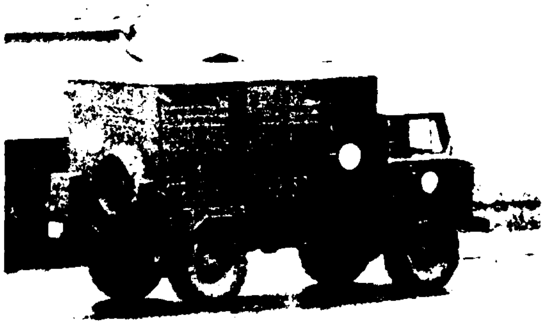


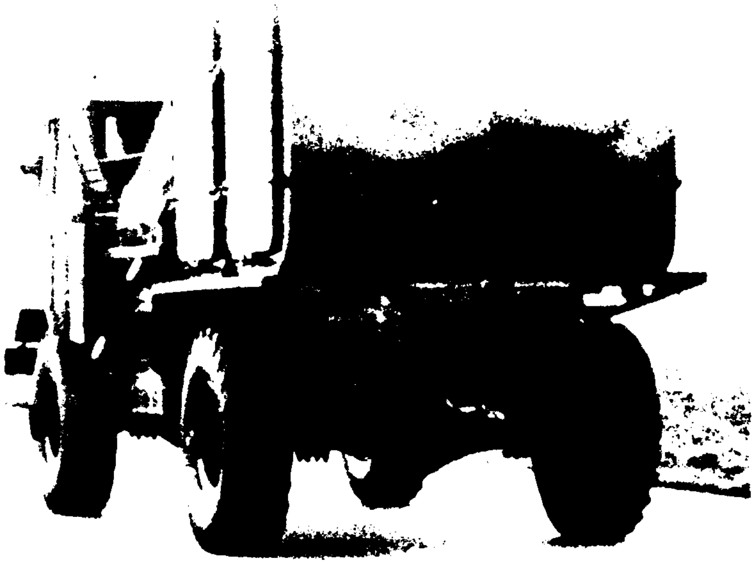
TMS-65

DECONTAMINATION VEHICLE
EMPLOYS A JET OF HOT AIR AND
  A LIQUID DECONTAMINATION
  SPRAY
1 TMS-65 CAN DECONTAMINATE FROM
  35 to 60 VEHICLES AN HOUR
ASSIGNED TO THE N.B.C. BATTALION
  OF THE MRD AND TD

GAZ-66 : DECONTAMINATION

DECONTAMINATION VEHICLE
ASSIGNED TO THE N.B.C. BATTALION OF
  THE MRD AND TD





DDA-66

DECONTAMINATION VEHICLE
ASSIGNED TO THE N.B.C. COMPANY
OF THE MRR AND TR AND TO THE
ENGINEER BATTALION OF THE MRD
AND TD

VII - TACTICAL TRUCKS

A - GENERAL PURPOSE

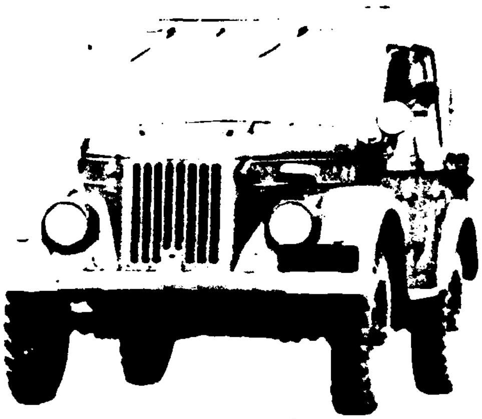
M-72

TWO VERSIONS: WITH SIDECAR
WITHOUT SIDECAR
ASSIGNED TO RECONNAISSANCE UNITS AT
BOTH REGIMENT AND DIVISION LEVEL

UAZ 469

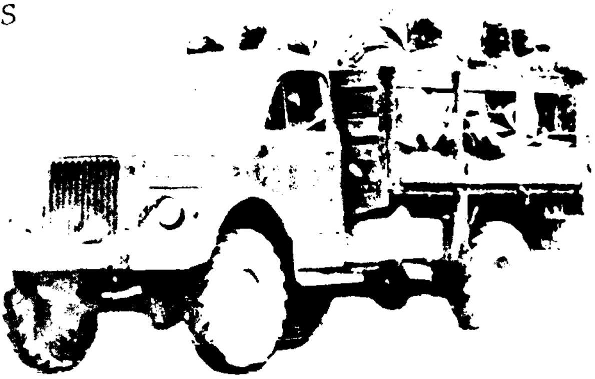
CARRYING CAPACITY 500 KG
REPLACING THE GAZ-69

B - 'GAZ' SERIES



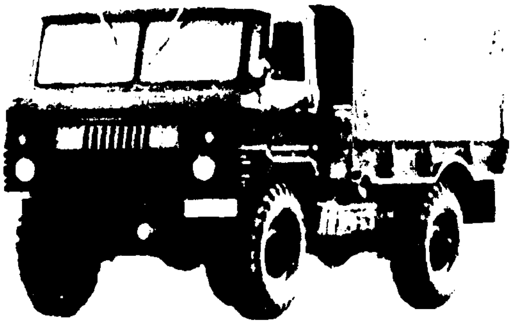
GAZ-69

4 x 4
CARRYING CAPACITY 500 KG
FOUND IN ALL UNITS



GAZ-63

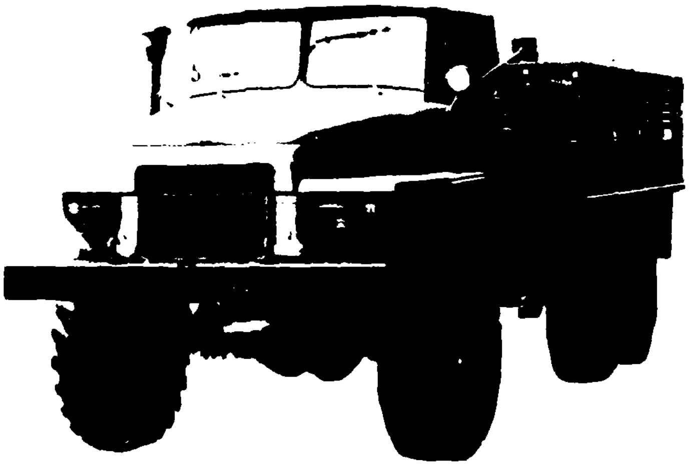
4 x 4
CARRYING CAPACITY 2 TONS



GAZ-66

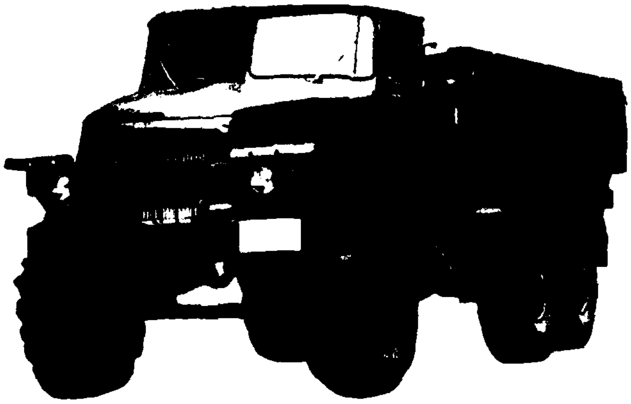
4 x 4
CARRYING CAPACITY 2 TONS
REPLACING THE GAZ-63

C - 'URAL' SERIES



URAL-375

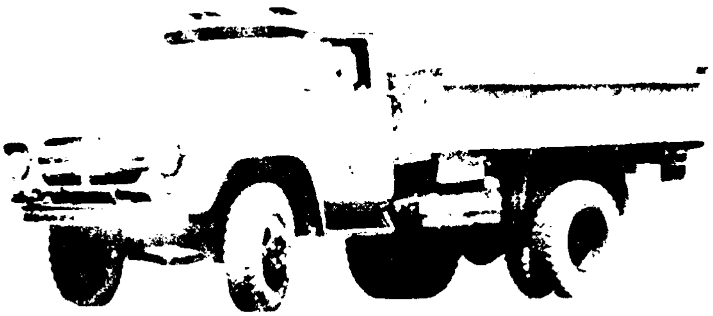
6 x 6
CARRYING CAPACITY 4.5 TONS



URAL-377

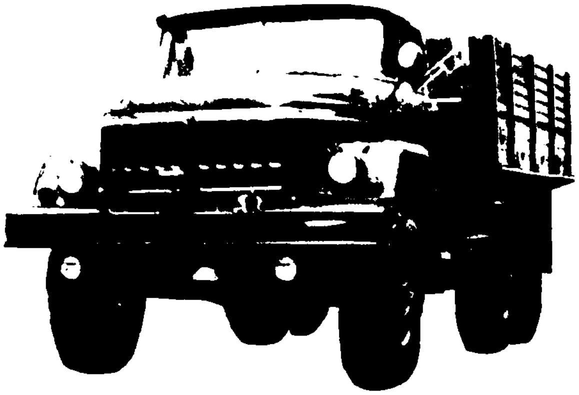
6 x 4
CARRYING CAPACITY 7.5 TONS

D - 'ZIL' SERIES



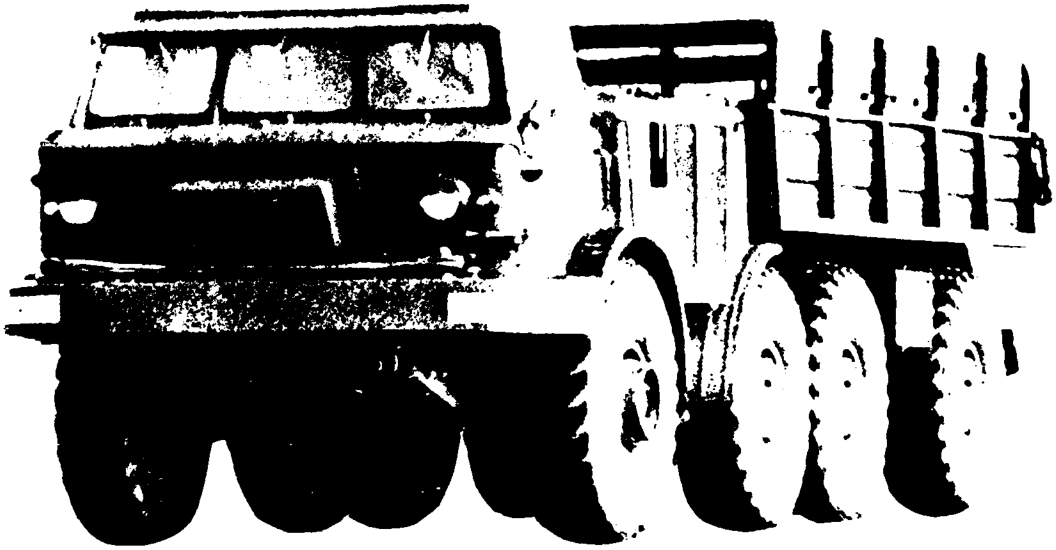
ZIL-130

4 x 2
CARRYING CAPACITY 5 TONS



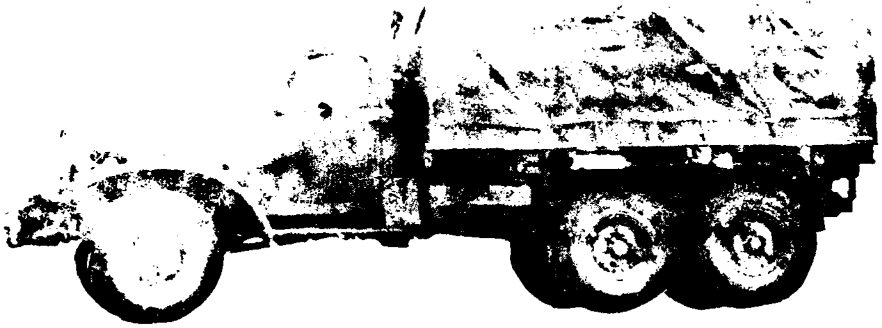
ZIL-131

6 x 6
CARRYING CAPACITY 5 TONS

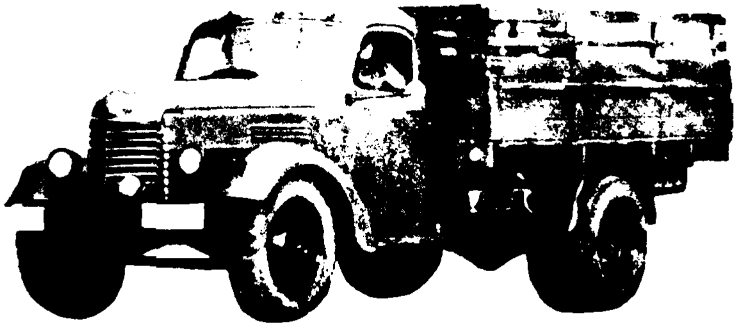


ZIL-135

8 x 8
CARRYING CAPACITY 10 TONS

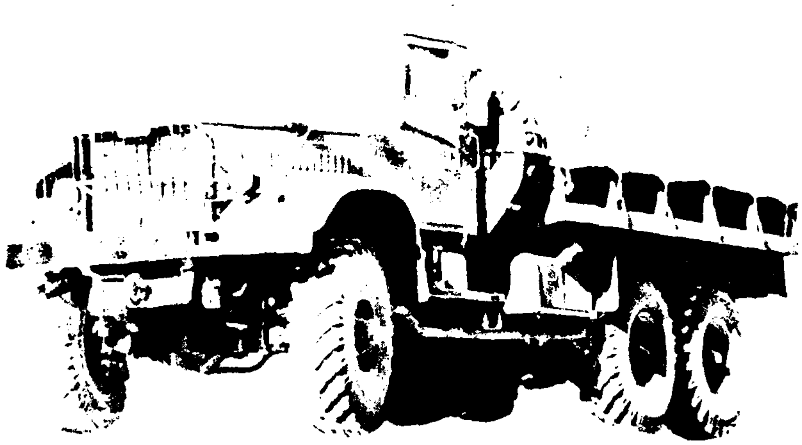


ZIL-157
6 x 6
CARRYING CAPACITY 4.5 TONS



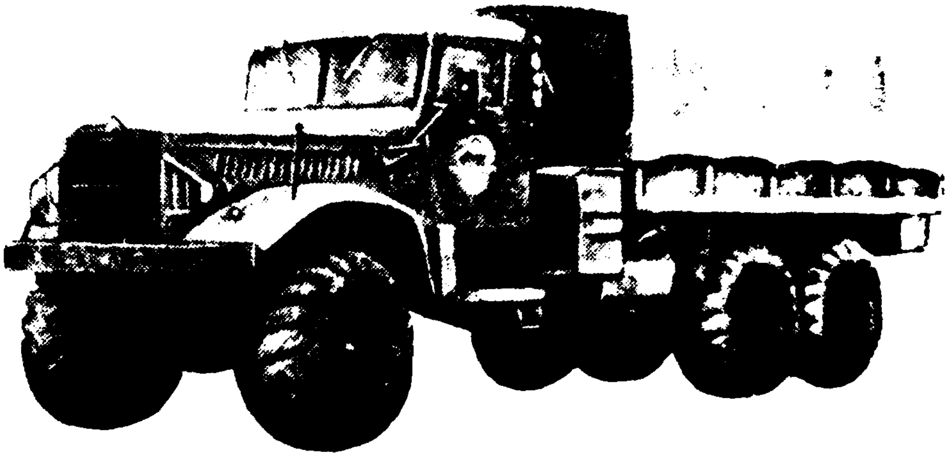
ZIL-164
6 x 6
CARRYING CAPACITY 4 TONS

E - 'KRAZ' SERIES



KRAZ-214

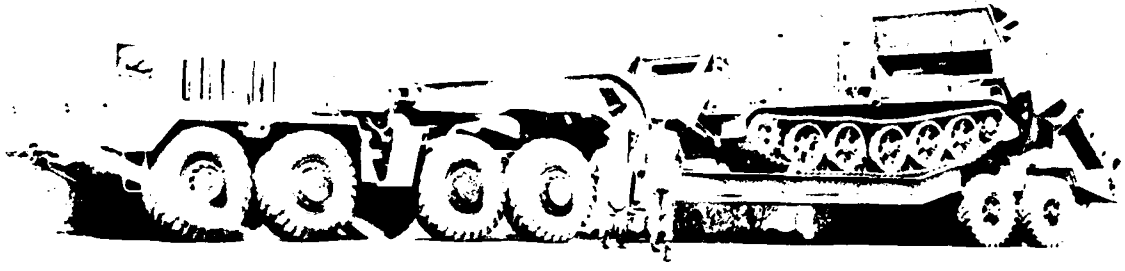
6 x 6
CARRYING CAPACITY 7 TONS



KRAZ-255 B

6 x 6
CARRYING CAPACITY 7.5 TONS

F - HEAVY TRANSPORTS



MAZ-537 with semitrailer TchSAP-524-7-6

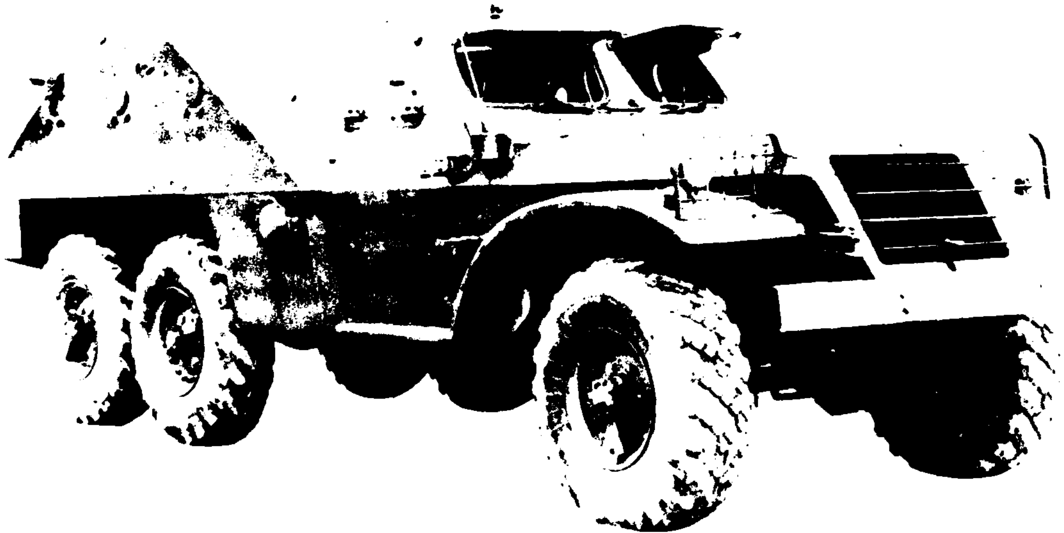
EMPLOYED AT FRONT
CARRYING CAPACITY 60 TONS

MAZ-537

TRACTOR
525 HP

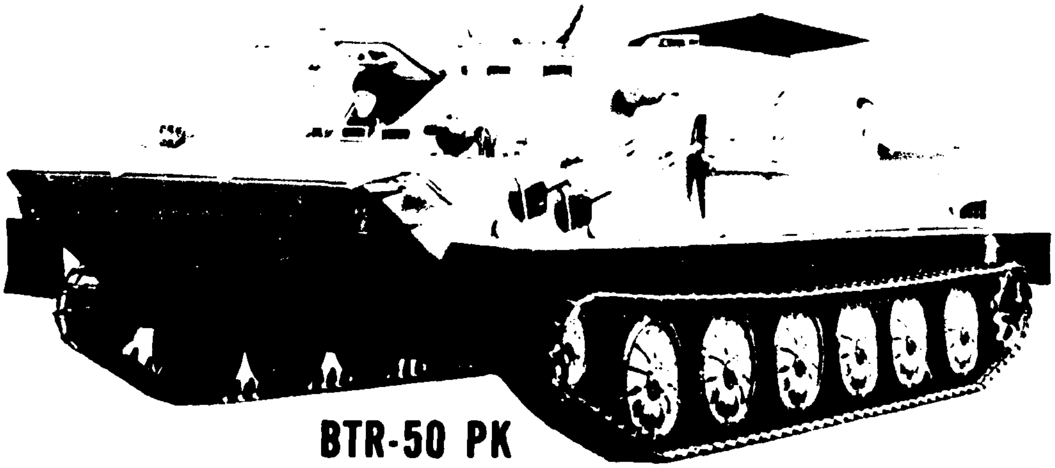
VIII - SPECIAL PURPOSE VEHICLES

A - PRIME MOVERS



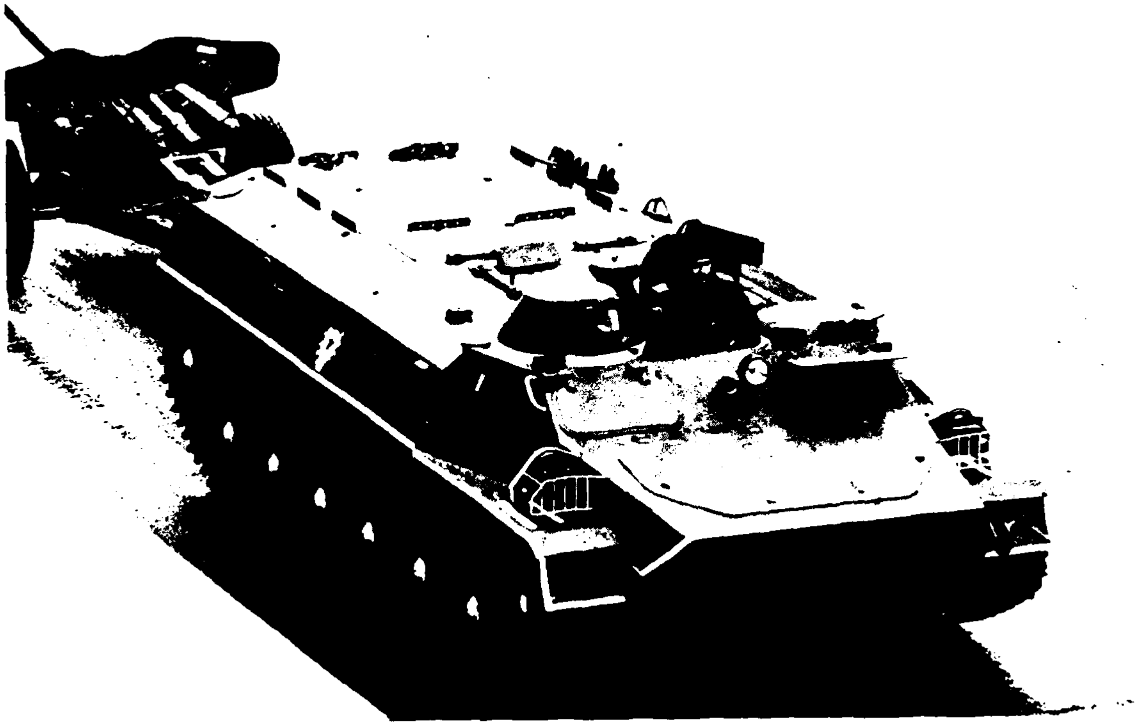
BTR-152

ENTERED SERVICE IN 1948
WEIGHT 9 TONS
HAS BEEN REPLACED IN THE
G.S.F.G. AS A TROOP
TRANSPORT VEHICLE
PRIMARILY USED AS AN AMMO
TRANSPORT OR TO TOW
MINELAYERS, ETC.



BTR-50 PK

ENTERED SERVICE IN 1957
WEIGHT 14.5 TONS
HAS BEEN REPLACED IN THE
G.S.F.G. AS A TROOP
TRANSPORT VEHICLE
PRIMARILY USED TO TOW
RADARS, ETC.

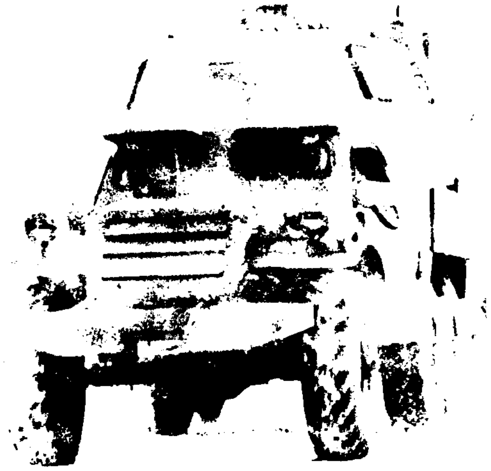


MT-LB 1970

ENTERED SERVICE IN 1970
WEIGHT 11 TONS
AMPHIBIOUS USING ITS TRACKS FOR
  PROPULSION
MAXIMUM ROAD SPEED 50 KM/HR
MAXIMUM WATER SPEED 6 KM/HR
ARMAMENT: ONE 7.62mm MG
PRIME MOVER FOR 100mm T-12 AT GUN

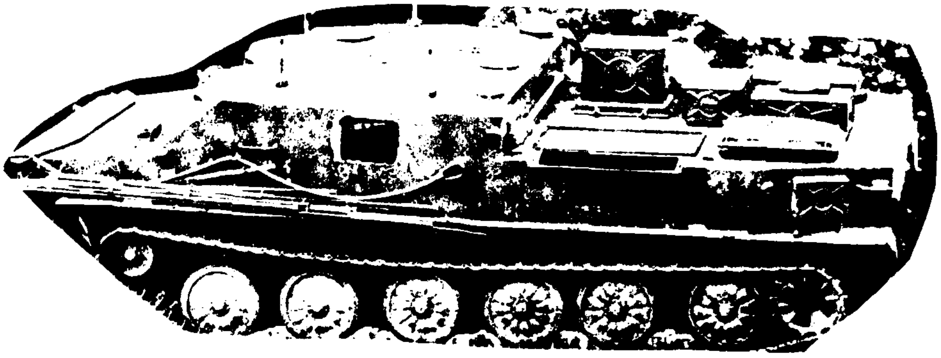
NOTE: THE MTLB, EMPLOYED AS AN ARMORED PERSONNEL CARRIER, HAS BEEN STATIONED WITH SOME MRR'S IN THE U.S.S.R.

B - COMMAND/SIGNAL VEHICLES



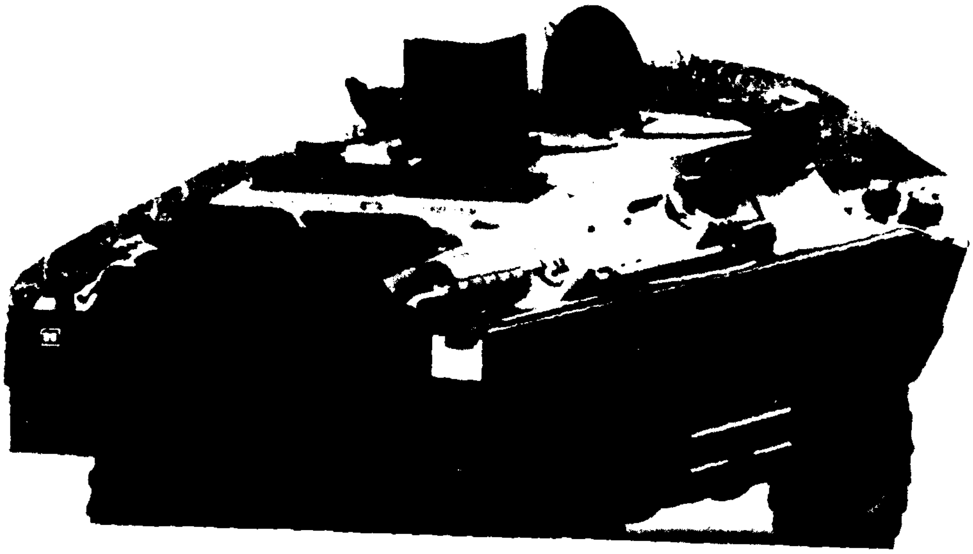
BTR-152 U

ENTERED SERVICE IN 1950
EMPLOYED AS EITHER A COMMAND VEHICLE
OR AS A COMMUNICATIONS VEHICLE
STILL WIDELY DEPLOYED THROUGHOUT THE
UNITS OF THE G.S.F.G.



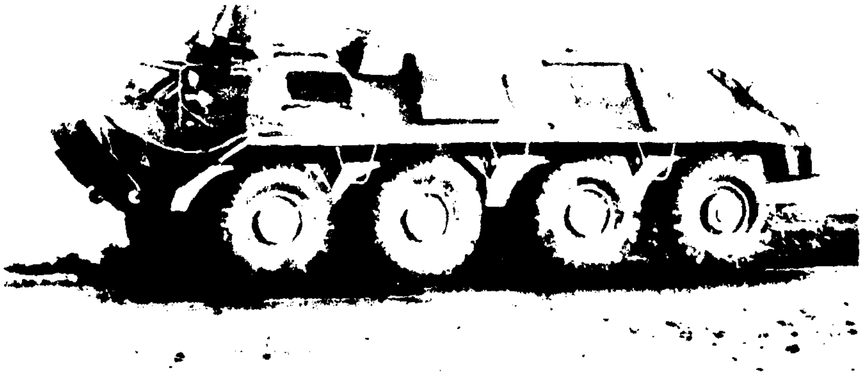
BTR-50 PU

ENTERED SERVICE IN 1957
EMPLOYED AS EITHER A COMMAND VEHICLE
OR AS A COMMUNICATIONS VEHICLE
STILL WIDELY DEPLOYED THROUGHOUT
THE G.S.F.G.



BRDM-2 COMMAND

ENTERED SERVICE IN 1966
EMPLOYED AS EITHER A COMMAND
OR A COMMUNICATIONS VEHICLE
OFTEN EMPLOYED WITH THE COMMAND
VERSION OF THE BRDM-1



BTR-60 PU

ENTERED SERVICE IN 1964
EMPLOYED AS EITHER A COMMAND
OR A COMMUNICATIONS VEHICLE

THE EQUIPMENT IN
THE
CZECHOSLOVAKIAN ARMY

I - ARMORED PERSONNEL CARRIERS 62

II - RECONNAISSANCE VEHICLES 64

III - ARTILLERY 65

A - HOWITZERS 65

B - MULTIPLE ROCKET LAUNCHERS 66

C - AIR DEFENSE 68

IV - ENGINEERS 70

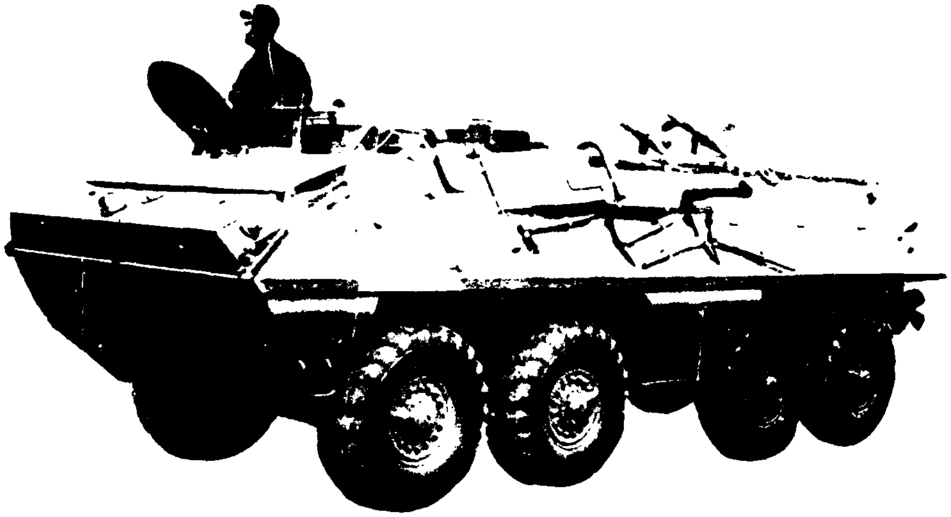
A - BRIDGING EQUIPMENT 70

B - SPECIALIZED EQUIPMENT 71

V - TRANSPORTS 72

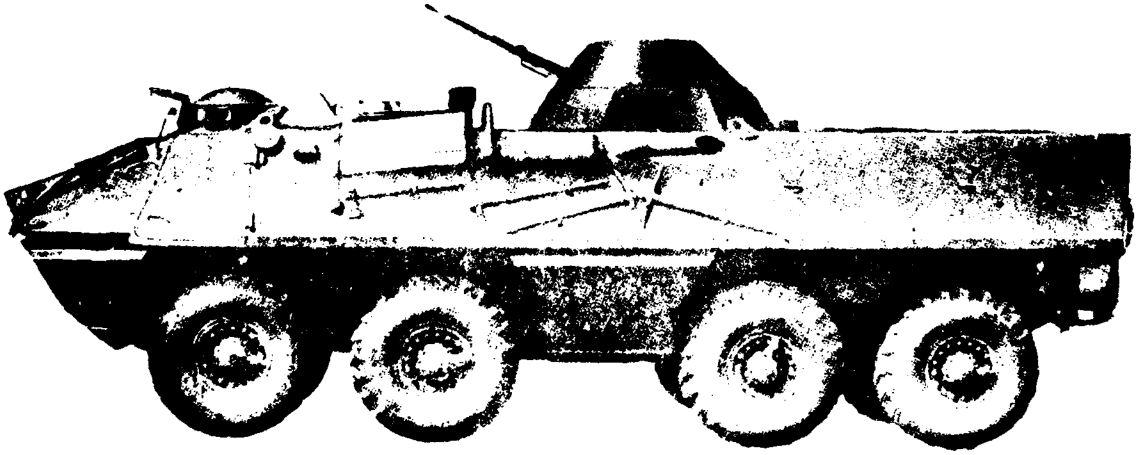
VI - MISCELLANEOUS VEHICLES 74

1 - ARMORED PERSONNEL CARRIERS



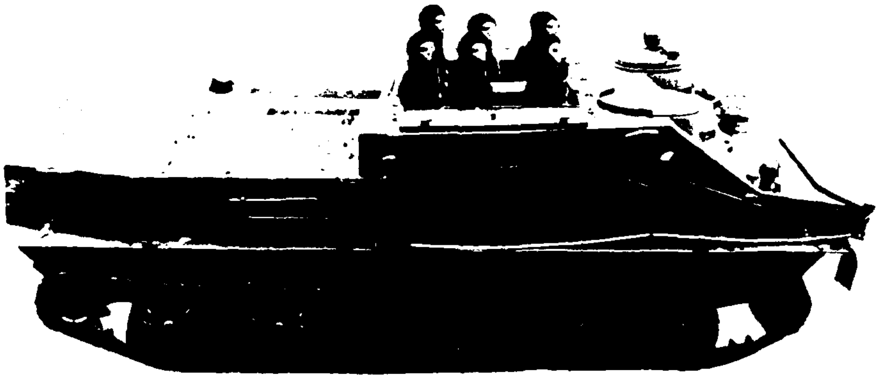
OT-64 MODEL 1

ENTERED SERVICE IN 1967 - AMPHIBIOUS
CREW OF 3 + 8 PASSENGERS
TURRETED VERSION OF OT-64 MOD 1
PRESSURIZED FOR OPERATION IN CONTAMINATED AREAS
1 14.5mm MG
1 7.62mm MG
ASSIGNED TO THE MRR OF THE MRD



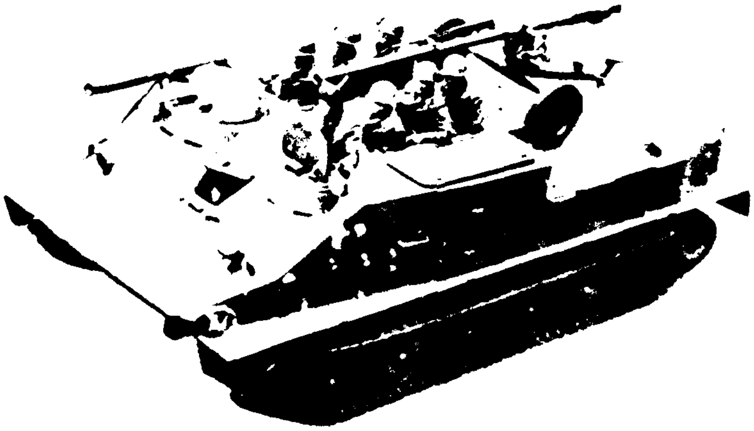
OT-64 MODEL 3

ENTERED SERVICE IN 1962 - AMPHIBIOUS
CREW OF 2 + 12 PASSENGERS
MAXIMUM SPEED: ON ROAD - 95 km/hr
IN WATER - 9 km/hr
PROBABLY ARMED WITH 2 'SAGGER' MISSLES
ASSIGNED TO THE MRR OF THE MRD



OT-62 MODEL 1

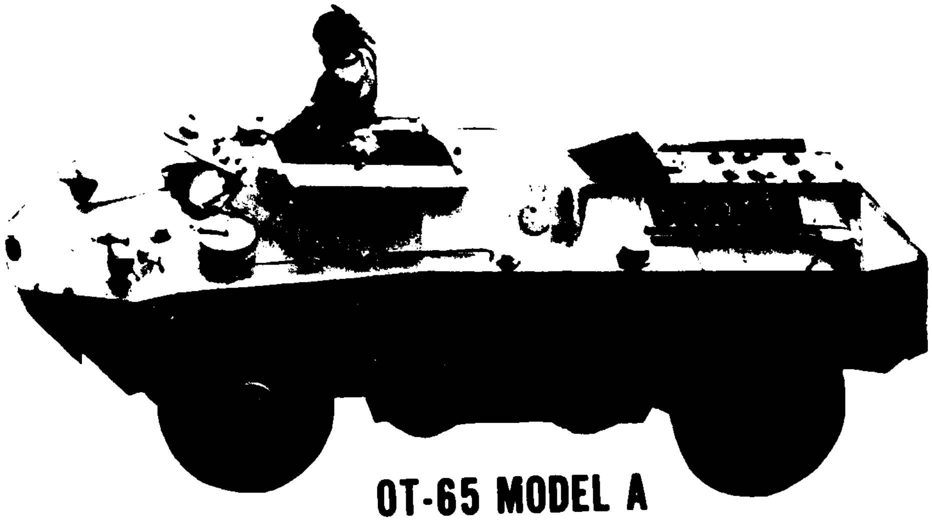
ENTERED SERVICE IN 1964 - AMPHIBIOUS
CREW OF 3 + 15 PASSENGERS
MAXIMUM SPEED: ON ROAD - 60 km/hr
IN WATER - 11 km/hr
PRESSURIZED WITH AIR FILTRATION SYSTEM
ASSIGNED TO THE MRR OF THE TD



OT-62 MODEL 2

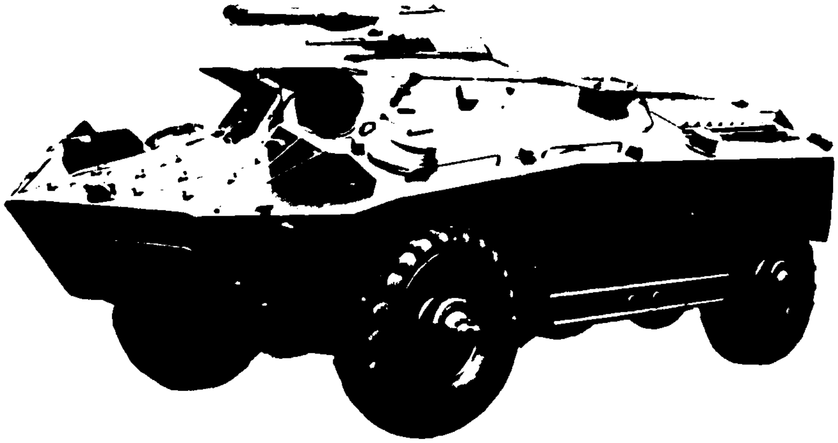
ENTERED SERVICE IN 1964
CARRIES AN 82mm RECOILLESS RIFLE
1 7.62mm MG IN THE TURRET
ASSIGNED TO THE MRR OF THE TD
MAY ALSO SERVE AS THE PLATFORM FOR THE M-59A RECOILLESS
ANTITANK RIFLE

2 - RECONNAISSANCE VEHICLES



OT-65 MODEL A

ENTERED SERVICE IN 1964 - AMPHIBIOUS
ASSIGNED TO RECONNAISSANCE:
  RECON COMPANY OF MRR AND TR
  RECON BATTALION OF MRD AND TD
UTILIZED AS A COMMAND AND/OR COMMUNICATIONS VEHICLE
A RECONNAISSANCE N.B.C. VERSION EXISTS

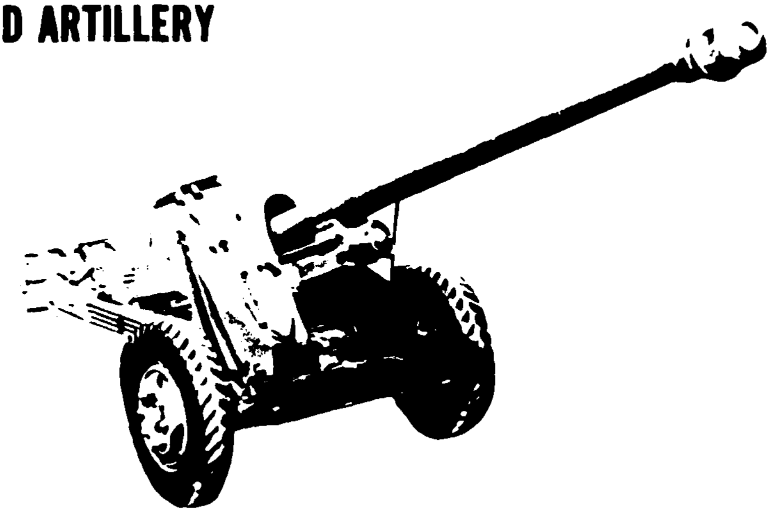


OT-65 MODEL B

ENTERED SERVICE IN 1964
ARMAMENT: TURRET EQUIPPED WITH A 7.62mm MG
A 82mm RECOILLESS RIFLE MAY ALSO BE MOUNTED

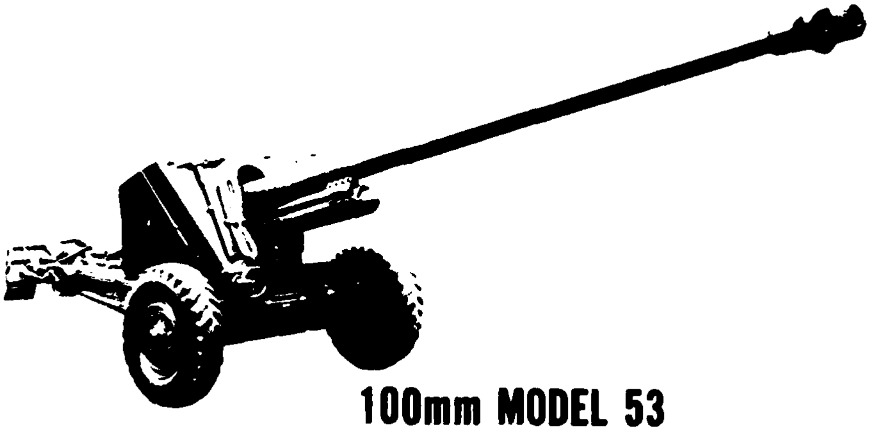
3 - ARTILLERY

A - TOWED ARTILLERY



85mm MODEL 55

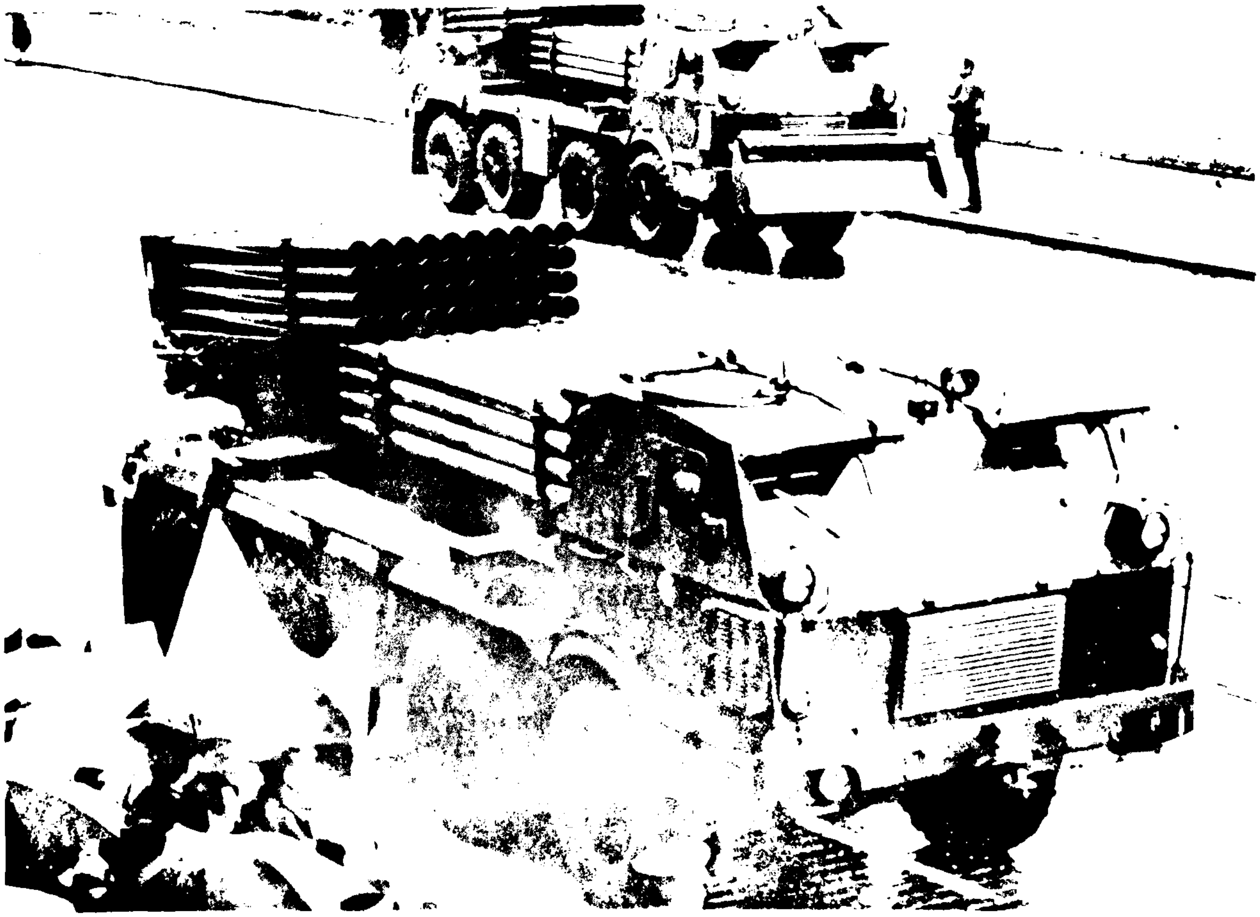
ENTERED SERVICE IN 1955
MAXIMUM RANGE 16,000m
RATE OF FIRE: 15 rds/min
MODIFIED VERSION OF THE 85mm M 52
CAN BE USED IN A DIRECT FIRE OR AN
  INDIRECT FIRE MODE
ASSIGNED TO BOTH ANTITANK AND
  DIVISIONAL ARTILLERY UNITS



100mm MODEL 53

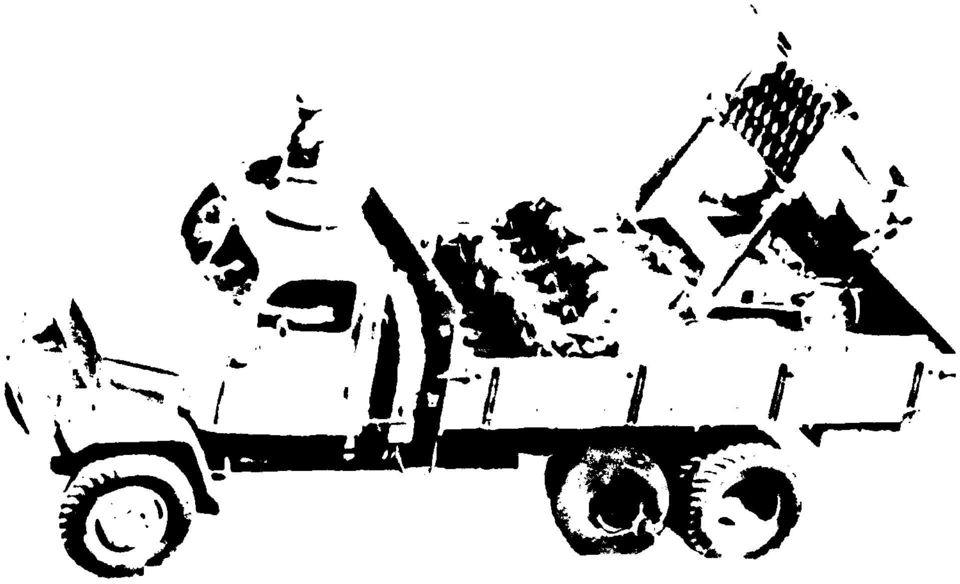
ENTERED SERVICE IN 1953
MAXIMUM RANGE 21,000m
RATE OF FIRE: 8 rds/min
CAN BE USED IN A DIRECT FIRE OR AN
  INDIRECT FIRE MODE
ASSIGNED TO BOTH ANTITANK AND
  DIVISIONAL ARTILLERY UNITS

B - AREA WEAPONS



BM-21 on TATRA 813

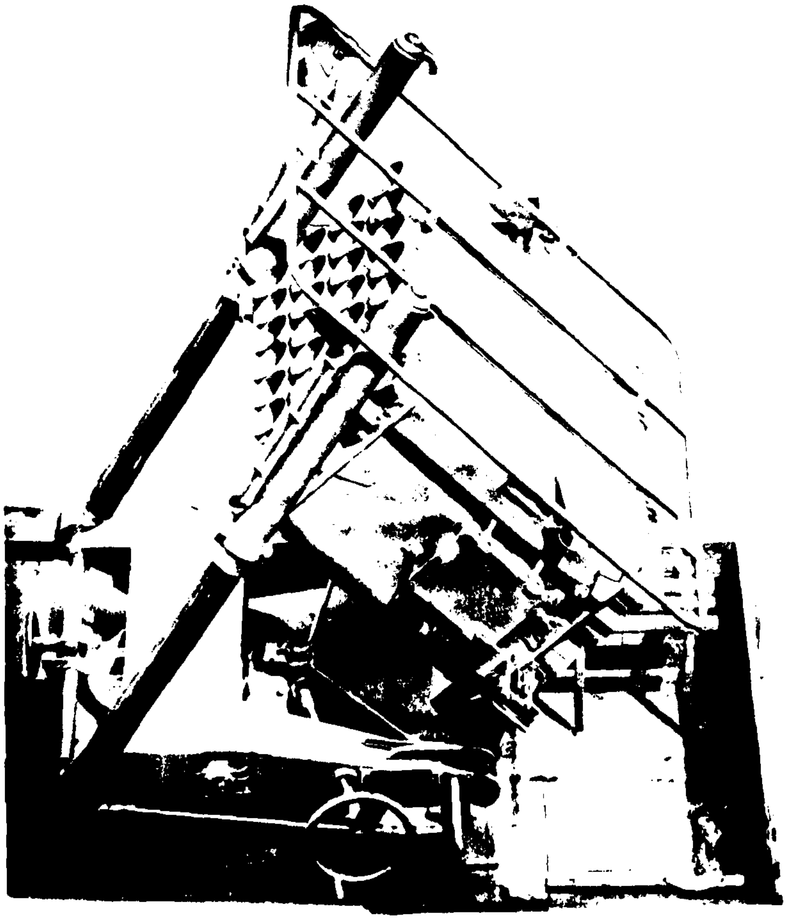
ENTERED SERVICE IN 1972
UTILIZES A TATRA 813 CHASSIS
MAXIMUM RANGE: SHORT ROCKET - 14,000m
LONG ROCKET - 21,000m
CARRIES 40 122mm ROCKETS (WITH AN ADDITIONAL 40 ROCKETS IN AN ONBOARD RELOADER)
RELOADER OPERATES HYDRAULICALLY
TIME TO RELOAD: 2 to 3 min
ASSIGNED TO THE MRL BN OF THE MRD AND TD



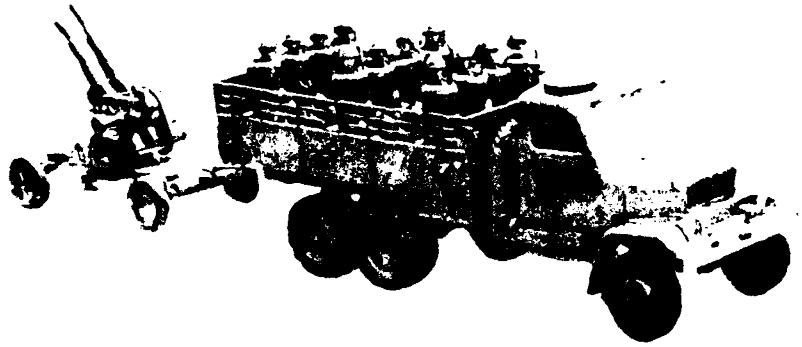
130mm MRL MODEL 51

ENTERED SERVICE IN 1951
MOUNTED ON A 6 x 6 PRAGA-V3S CHASSIS
MAXIMUM RANGE 8200m
CARRIES 32 130mm ROCKETS
A SECOND UNIT OF FIRE IS CARRIED

A SECOND UNIT OF FIRE IS CARRIED ON A
  CAISSON TOWED BEHIND THE LAUNCHER
TIME TO RELOAD: 10 min
ASSIGNED TO THE MRL BN OF THE MRD AND TD

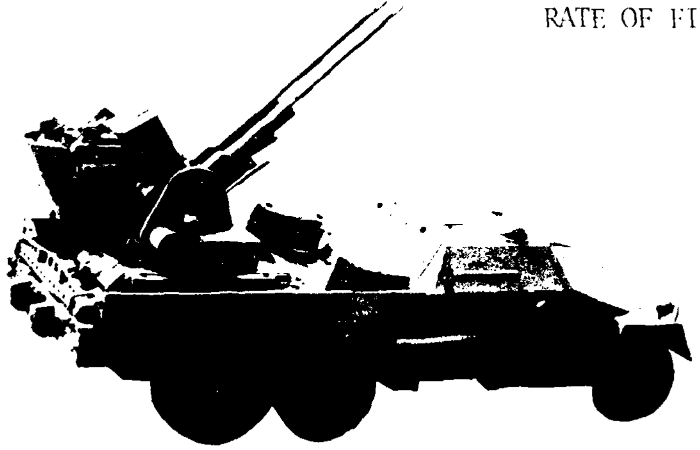


C - ANTIAIRCRAFT WEAPONS



TWIN BARREL 30mm MODEL 53

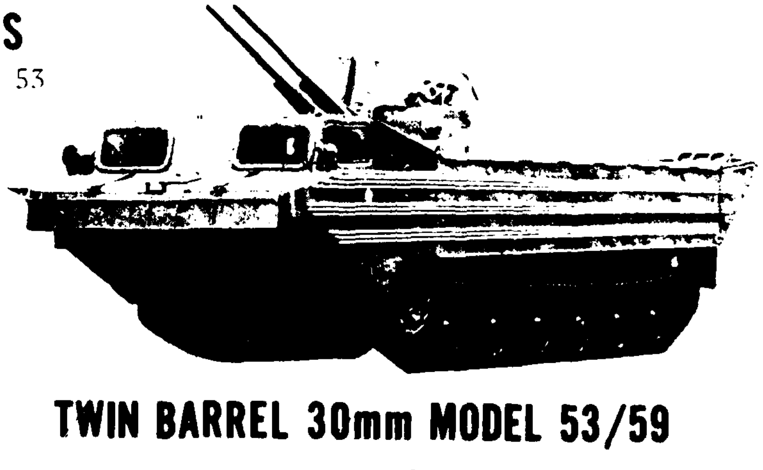
ENTERED SERVICE IN 1953
TWIN BARREL 30mm
EFFECTIVE RANGE: 1500m
MAXIMUM RANGE: 10,000m
RATE OF FIRE: 900 rds/min



TWIN BARREL 30mm MODEL 53/59

ON PRAGA-V3S

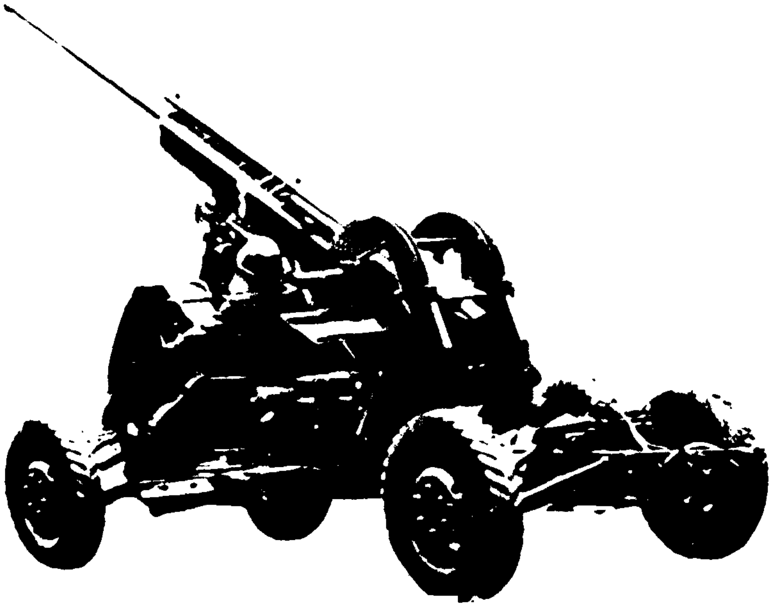
IDENTICAL TO BT 30 MLE 53



TWIN BARREL 30mm MODEL 53/59

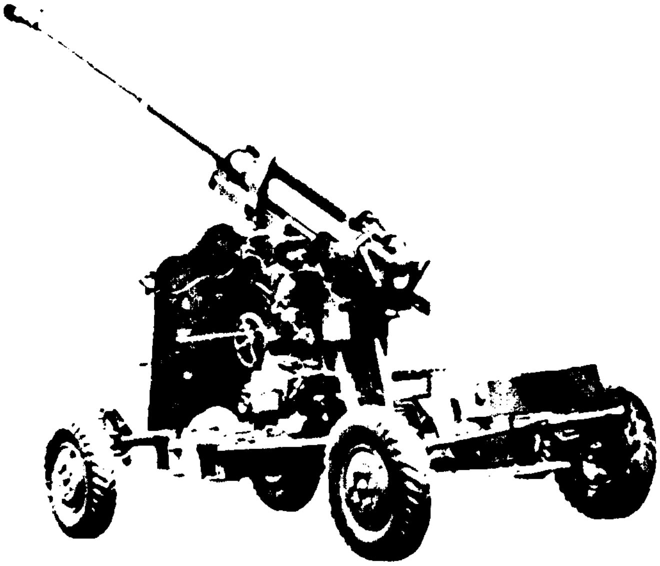
ON PTS

IDENTICAL TO THE BT 30 MLE 53



57mm MODEL 56

ENTERED SERVICE IN 1956
CZECK COPY OF S-60 57mm
MAXIMUM RATE OF FIRE: 160 rds/min
UTILIZES THE SAME TYPE OF AMMUNITION
AS THE S-60

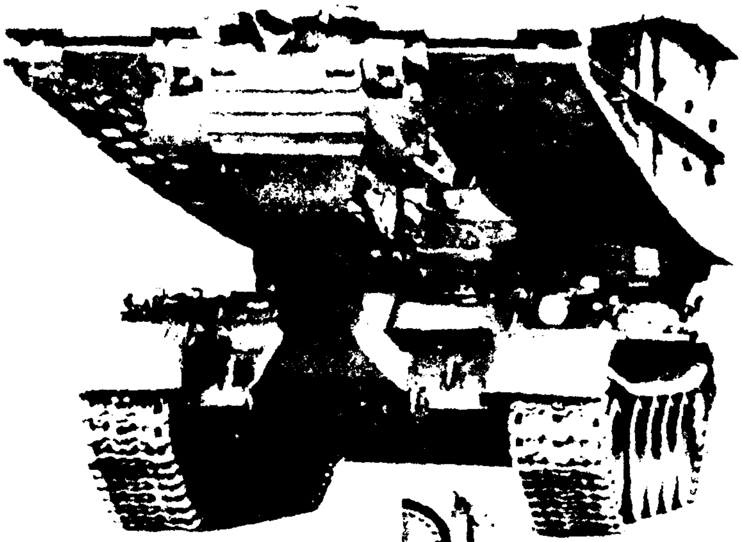


85mm MODEL 53

ENTERED SERVICE IN 1953
CZECH VERSION OF 85-m KS-18 CANNON
RATE OF FIRE: 12 rds/min
MAXIMUM RANGE 16,000m
EFFECTIVE RANGE (WITH RADAR): 8,000m
ASSIGNED TO THE ADA REGIMENT OF THE MRD AND TD

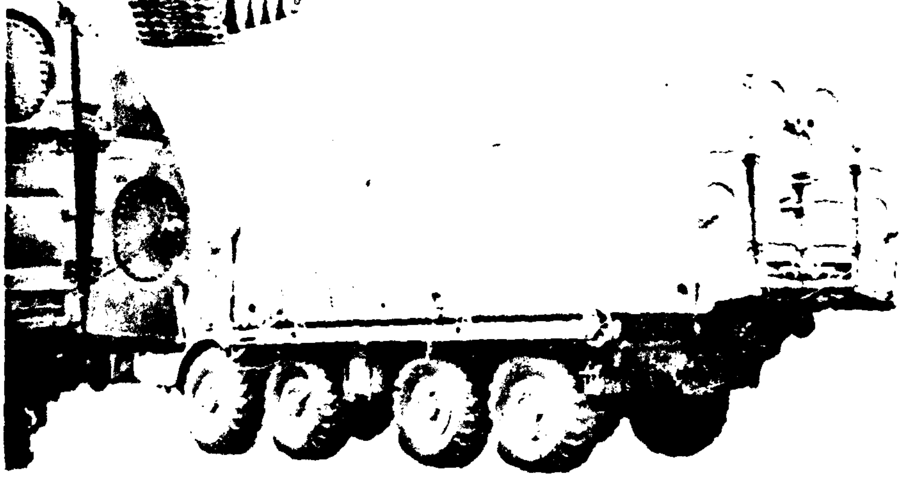
4 - ENGINEERS

A - TACTICAL BRIDGES



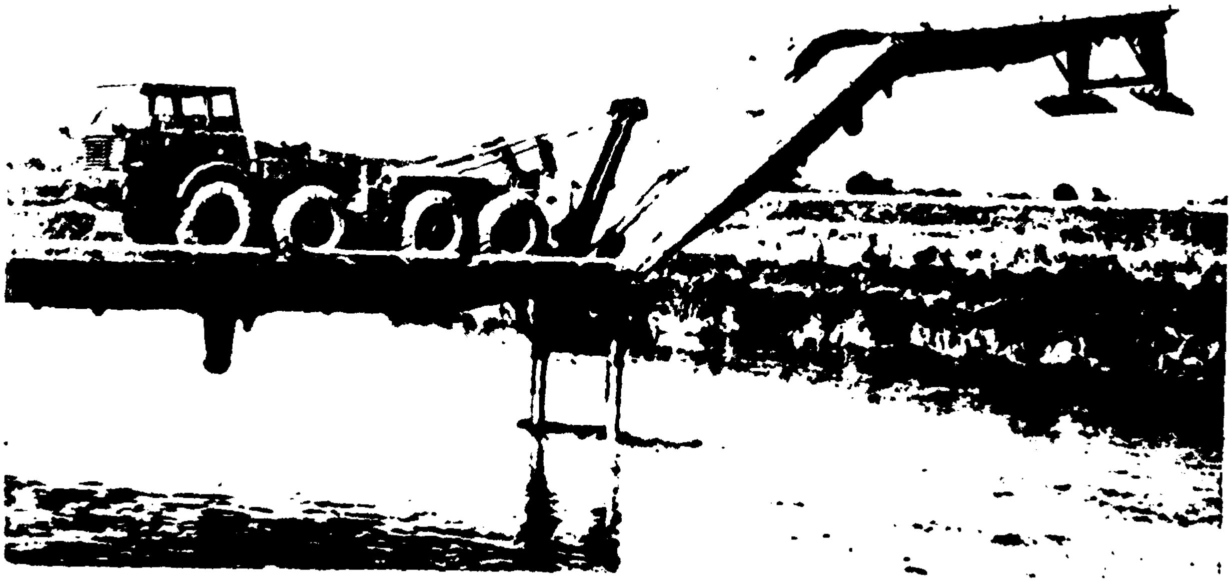
MT-55

TANK LAUNCHED BRIDGE
UTILIZES A MODIFIED T 54 CHASSIS
LENGTH OF SPAN: 20m
CLASS 60
TIME TO EMPLOY: 3 min
SAME ECHELON OF EMPLOYMENT AS
THE G.S.F.G. UNITS (page 40)



CZECH VERSION OF PMP BRIDGE

ON TATRA 813 CHASSIS



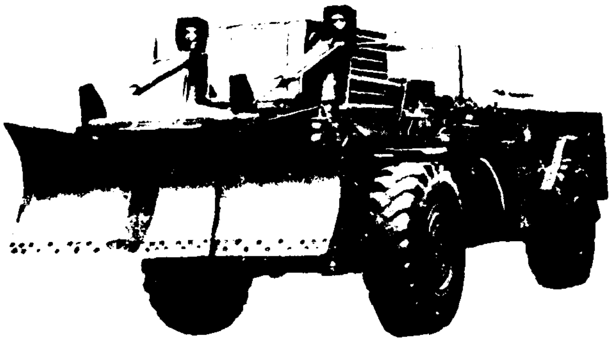
CZECH VERSION OF TMM BRIDGE
AM-50

ON TATRA 813 CHASSIS)

B - SPECIALIZED EQUIPMENT

TATRA 813 BZ-D

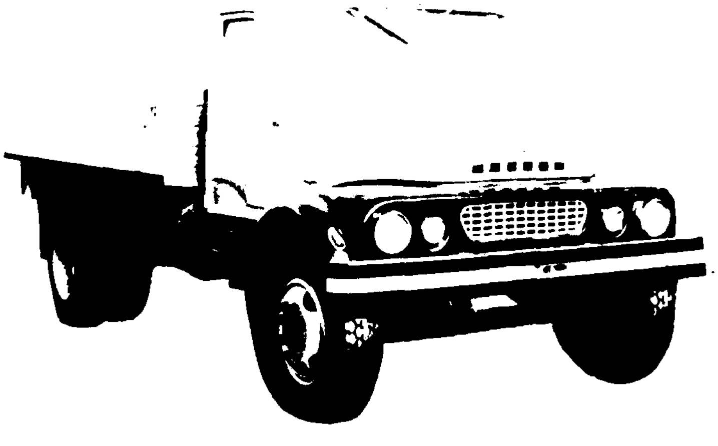
DOZER BLADE ADAPTED TO THE TATRA 813 MODIFIED
CAN MOVE 50 CUBIC METERS IN AN HOUR



DOK PLOW

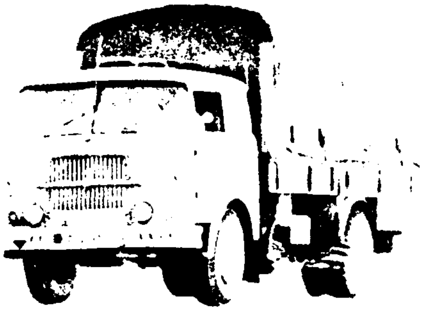
UTILIZES A TATRA 255 HP DIESEL ENGINE
DIESEL-ELECTRIC PROPULSION
CAN MOVE 70 to 100 CUBIC METERS IN AN HOUR

5 - TACTICAL TRUCKS



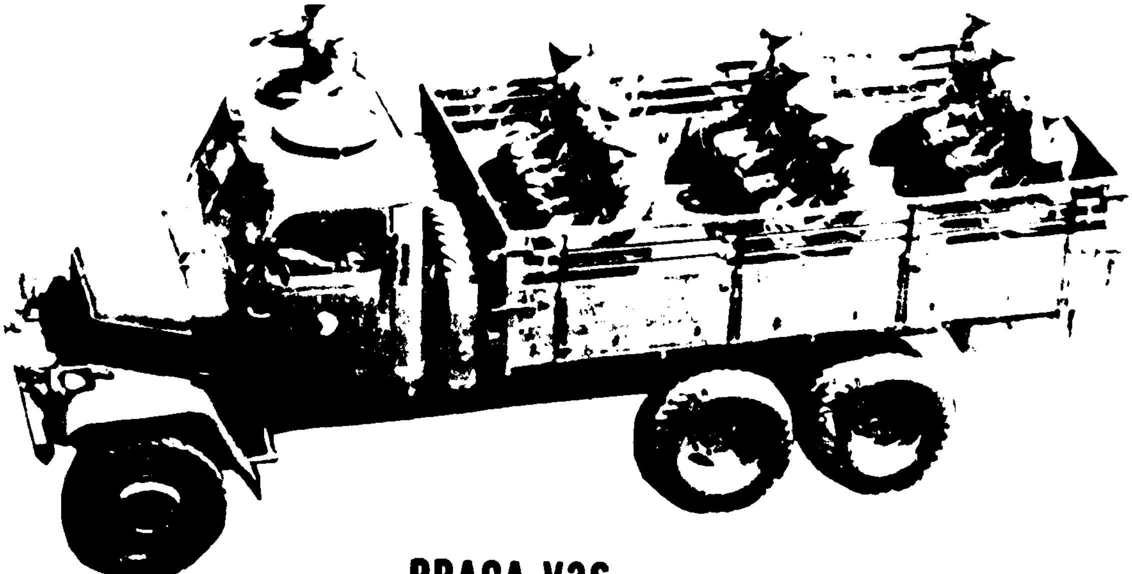
PRAGA S5T

4 x 2
CARRYING CAPACITY 5 TONS



SKODA 706 RT

4 x 2
CARRYING CAPACITY 8.6 TONS

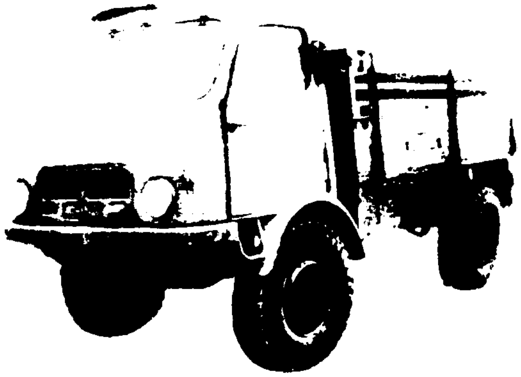


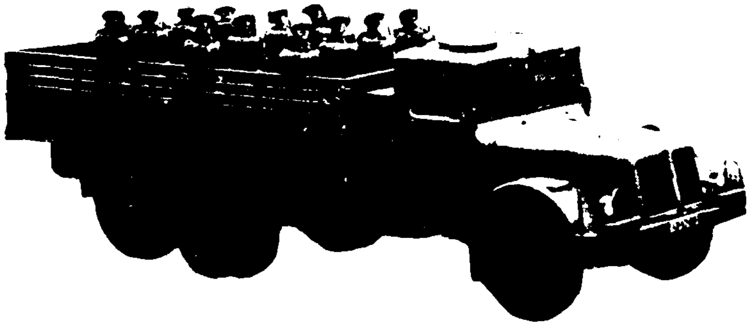
PRAGA V3S

6 x 6
CARRYING CAPACITY 3.3 TONS (T.T.)

TATRA 805

4 x 4
CARRYING CAPACITY 1.5 TONS (T.T.)



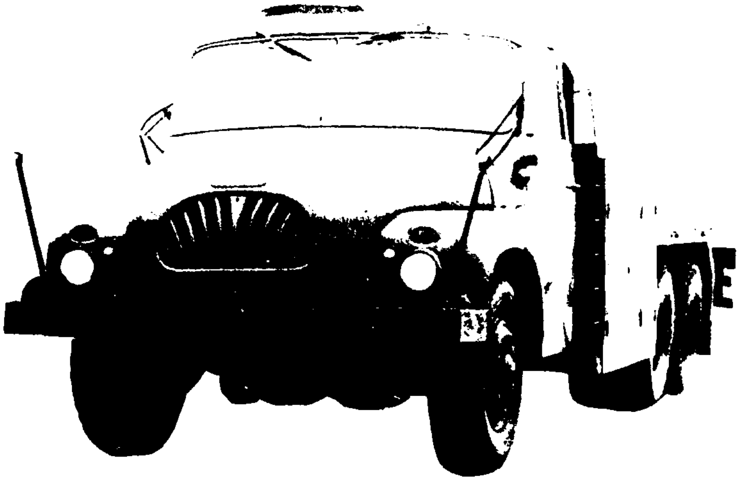


TATRA 111

6 x 6
CARRYING CAPACITY
10 TONS (ON ROADS)

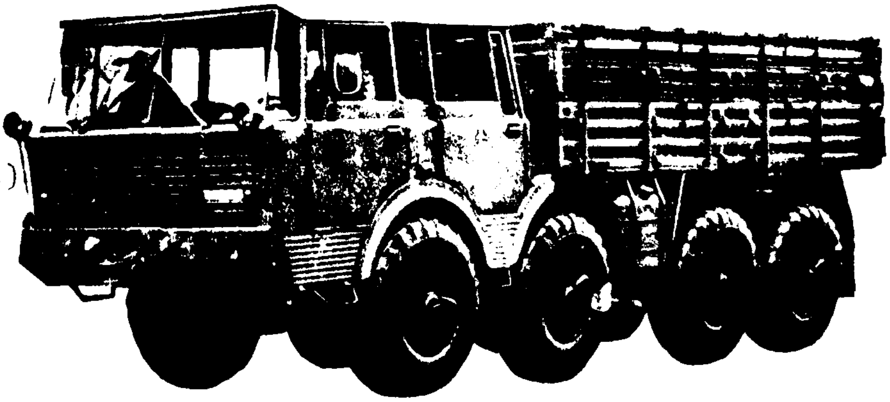
TATRA 138

6 x 6
CARRYING CAPACITY 8 TONS (T.T.)
NUMEROUS VERSIONS

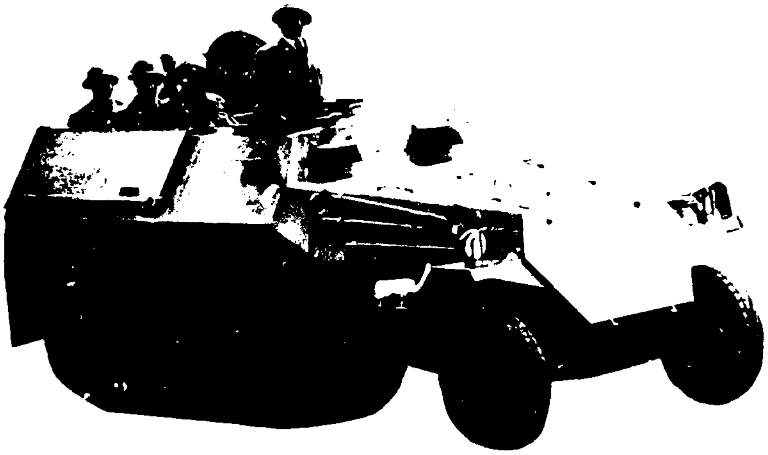


TATRA 813

6 x 6
CARRYING CAPACITY 8.5 TONS (T.T.)
NUMEROUS VERSIONS
CHASSIS IS BASIS FOR OT-64



6 - MISCELLANEOUS APC'S



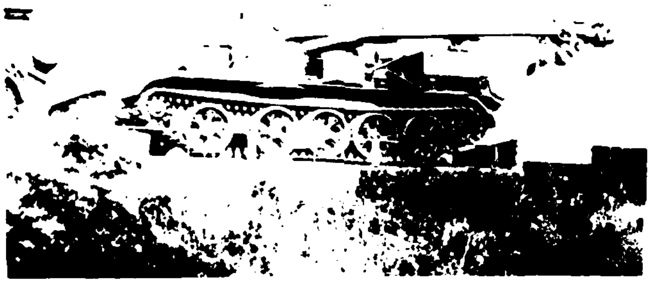
OT-810

BASED ON A GERMAN VEHICLE OF THE
SECOND WORLD WAR
THE ONLY HALF-TRACK CURRENTLY IN ANY
OF THE WARSAW PACT ARMIES
WEIGHT 8.5 TONS
HAS BEEN REPLACED AS AN APC
PRIMARILY USED AS A FIELD AMBULANCE,
OR PRIME MOVER FOR TOWED ARTILLERY.

THE EQUIPMENT IN
THE
EAST GERMAN ARMY (N.V.A.)

I - ARMORED RECOVERY VEHICLE 75
II - ARTILLERY 76
  A - HOWITZERS 76
  B - AIR DEFENSE 76
III - ENGINEER EQUIPMENT 77
IV - TRANSPORTS 78
  A - LIGHT TRUCKS 78
  B - MEDIUM TRUCKS 79

1 - ARMORED RECOVERY VEHICLE



T-54-T MODEL D

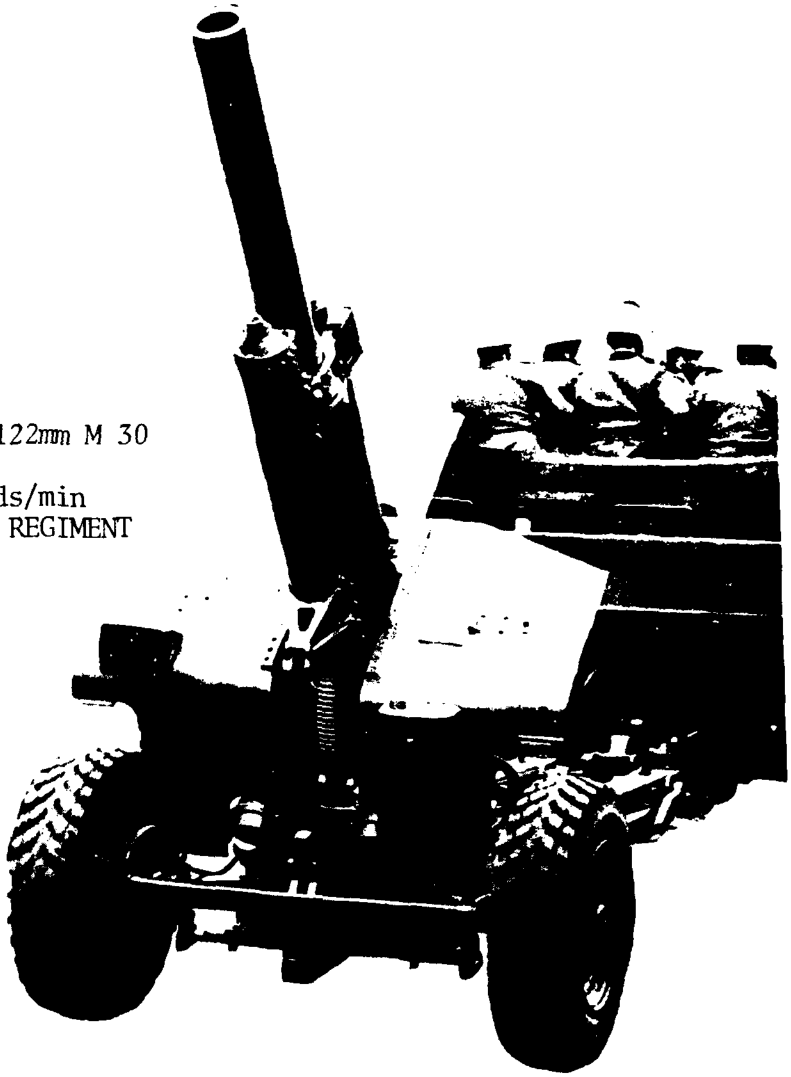
WEIGHT 35 TONS
UTILIZES A MODIFIED T 54 CHASSIS
CRANE CAPACITY 20 TONS
WINCH CAPACITY 30 TONS

2 - ARTILLERY

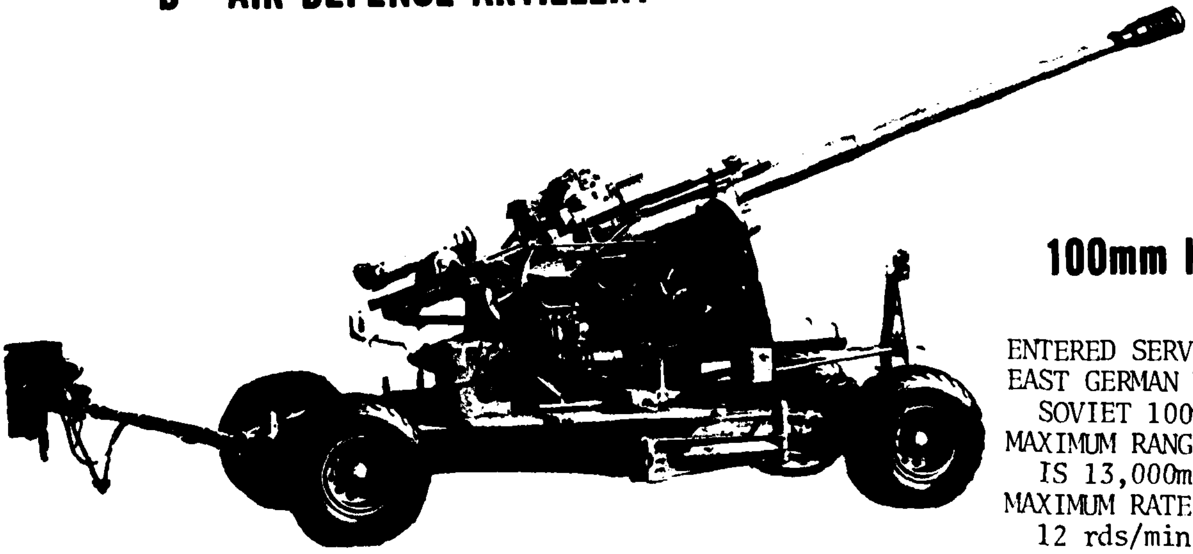
A - TOWED ARTILLERY

122mm M-30

ENTERED SERVICE IN 1938
EAST GERMAN VERSION OF SOVIET 122mm M 30
MAXIMUM RANGE 11,800m
MAXIMUM RATE OF FIRE: 5 to 6 rds/min
2 BATTALIONS (36) in ARTILLERY REGIMENT OF THE MRD AND TD
1 BATTERY (6) IN THE MRR



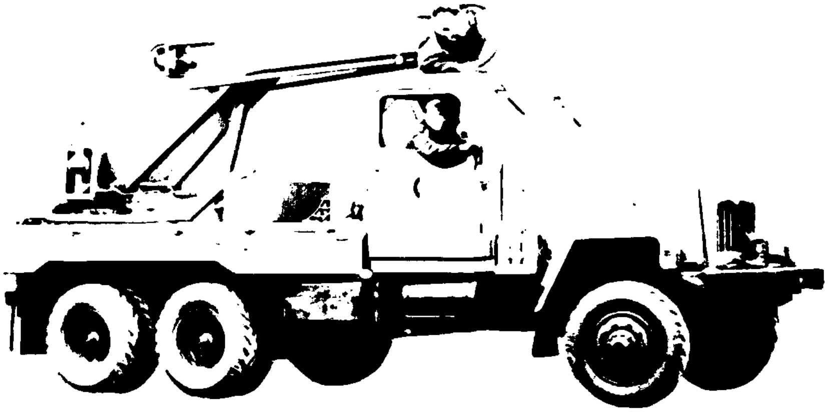
B - AIR DEFENSE ARTILLERY



100mm KS-19

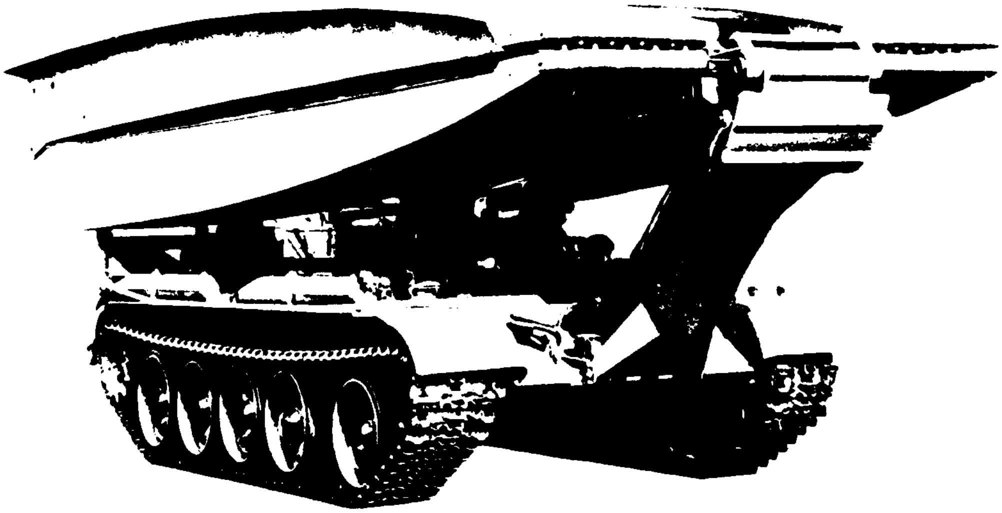
ENTERED SERVICE IN 1949
EAST GERMAN VERSION OF SOVIET 100mm KS19
MAXIMUM RANGE WITH RADAR IS 13,000m
MAXIMUM RATE OF FIRE: 12 rds/min
1 REGIMENT (36) per ARMY

3 - ENGINEERS



ADK III/3 'PUMA'

DIESEL-ELECTRIC CRANE
LIFT CAPACITY 6.3 TONS
ASSIGNED TO THE ENGINEER BATTALION
OF THE TD'S MRR AND THE ENGINEER
REGEMENT AT ARMY

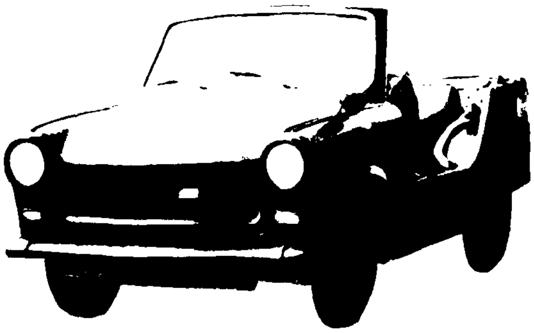


BLG-60 TANK LAUNCHED BRIDGE

EAST GERMAN VERSION OF MT 55
LENGTH OF SPAN 20m
MODIFIED T 54 CHASSIS
CLASS 50
CAN BE SUBMERGED IN WATER

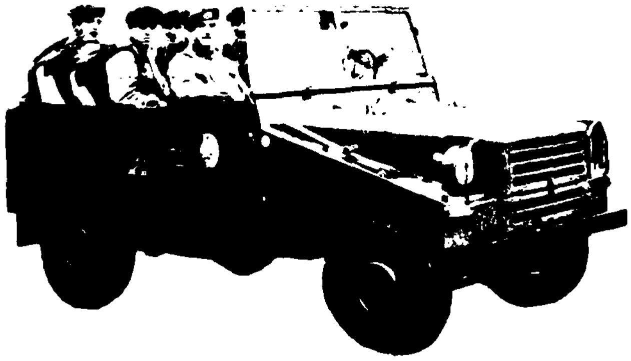
4 - TACTICAL TRUCKS

A - LIGHT VEHICLES



TRABANT 601/A

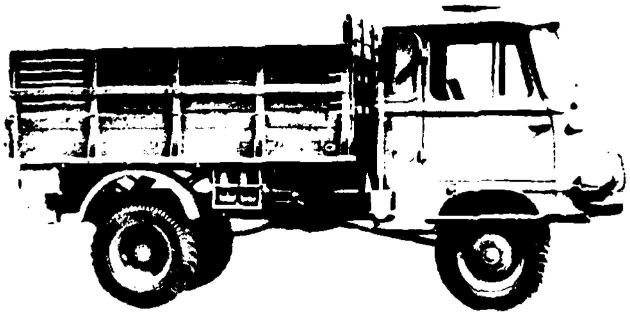
4 x 2
4 PASSENGERS
100 km/hr
EMPLOYED BY BORDER GUARD UNITS



P 3

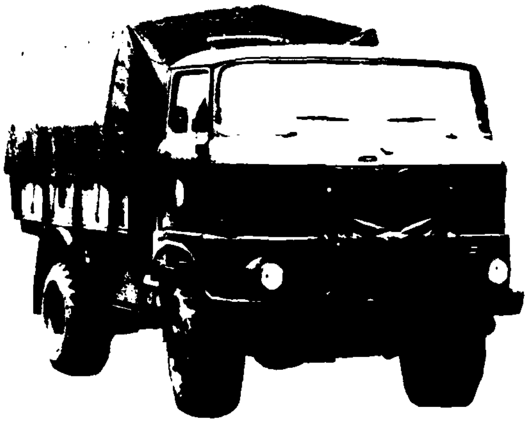
4 x 4
CARRYING CAPACITY 0.7 TONS
95 km/hr
EMPLOYED BY ALL UNITS

B - HEAVY TRANSPORTS



ROBUR LO 1800 A

4 x 4
CARRYING CAPACITY 1.8 TONS (T.T.)
80 km/hr
NUMEROUS VERSIONS

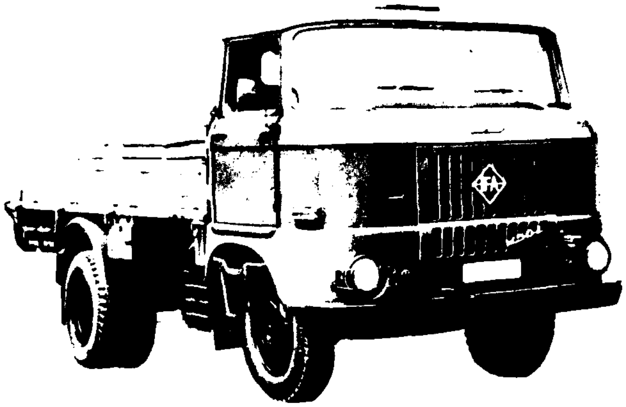


W 50 LA/A

4 x 4
CARRYING CAPACITY 3 TONS (T.T.)
HEAVY VERSION OF THE W 50 L/A

W 50 LA/A

6 x 6
CARRYING CAPACITY 5.3 TONS



W 50 LA/A

4 x 2
CARRYING CAPACITY 4.7 TONS
80 km/hr

NUMEROUS VERSIONS

G5

6 x 6
CARRYING CAPACITY 3.5 TONS (T.T.)
60 km/hr
NUMEROUS VERSIONS

END

FILMED

4-85

DTIC